

RECEIVED	CLASS	SUBCLASS
BY		
DRAFTSMAN		

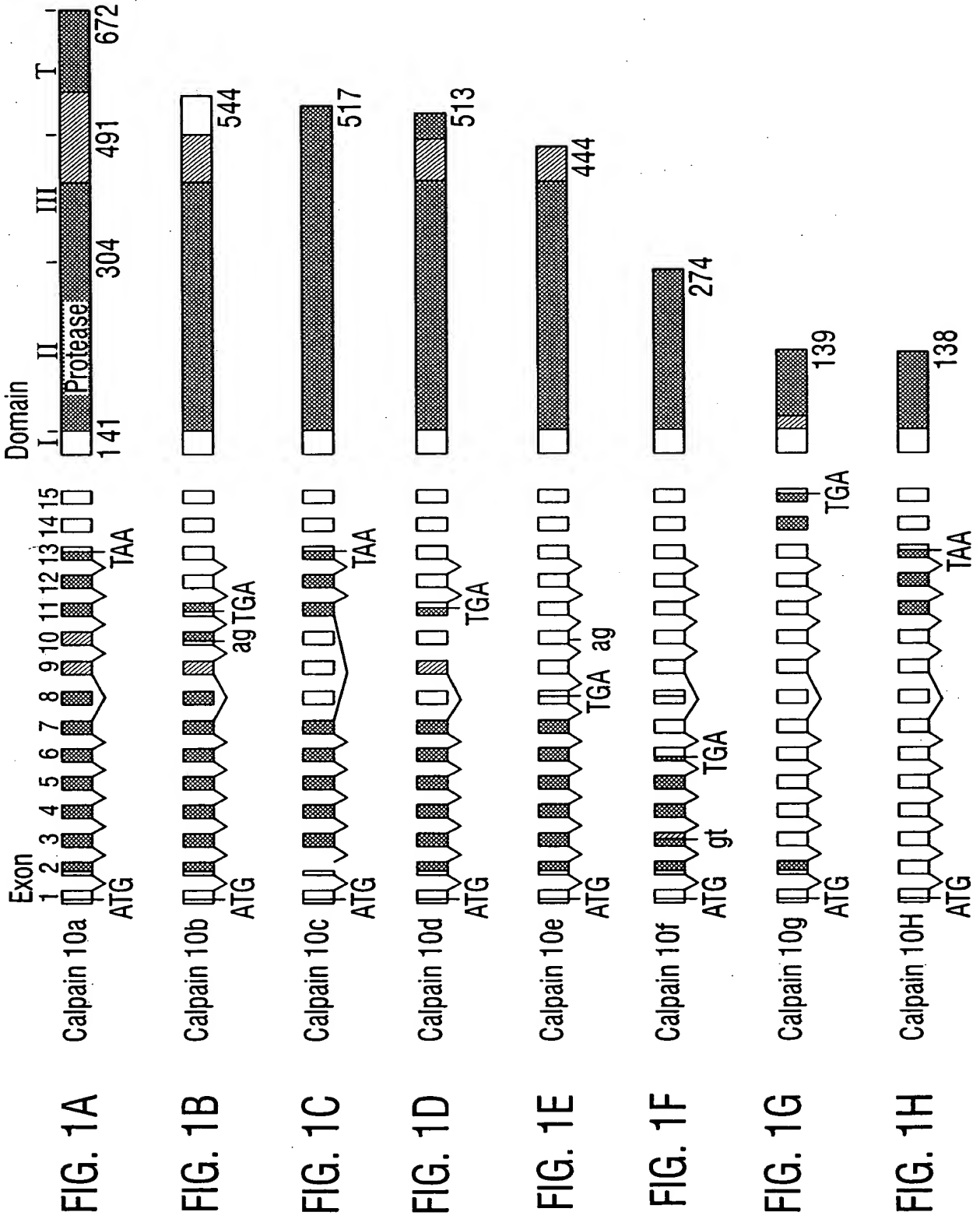


FIG. 2A	FIG. 2B	FIG. 2C
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FIG. 2

APPROVED	BY	DRAFTSMAN
O.C.P.		SUBCLASS
CLASS		

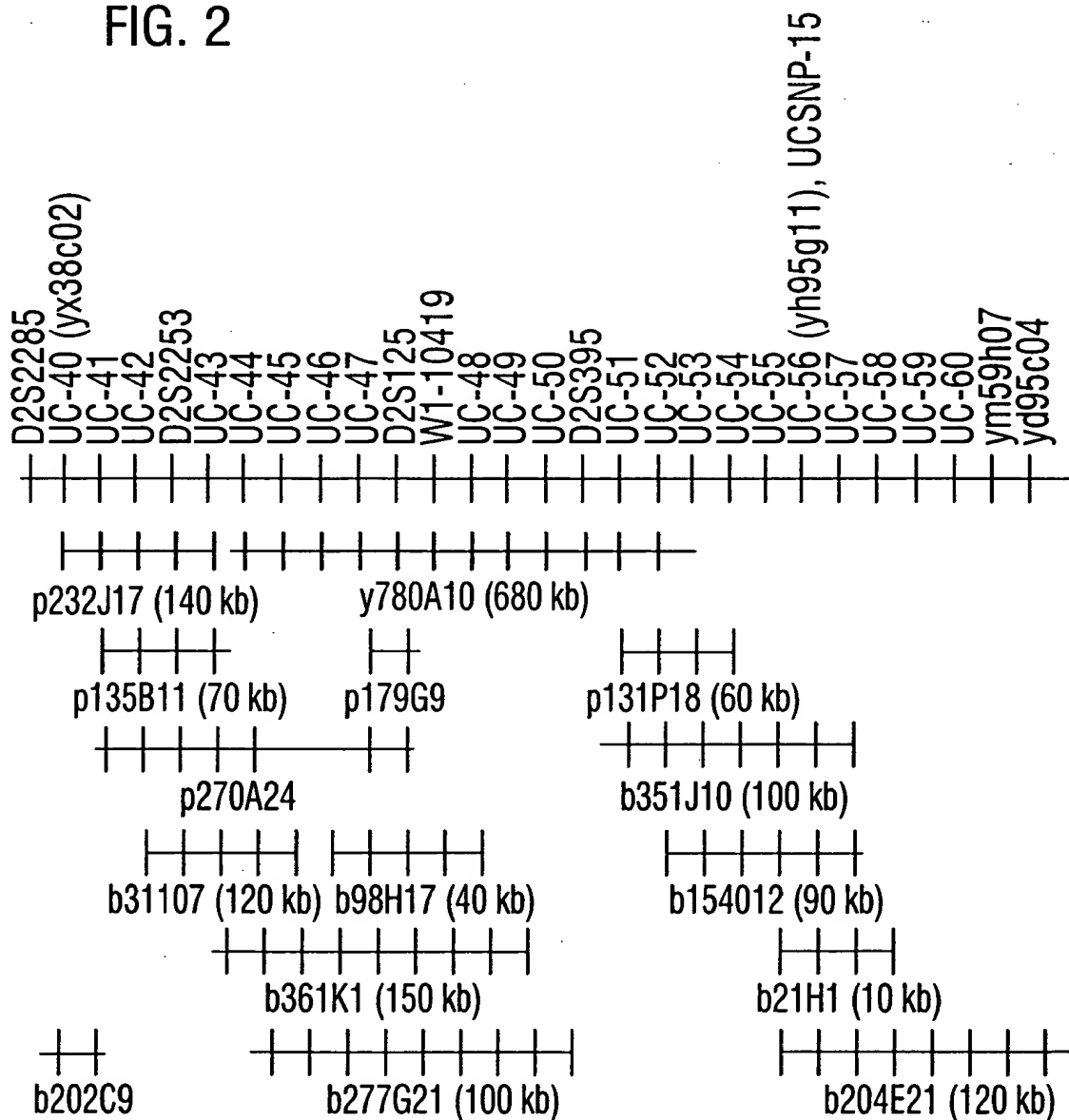


FIG. 2A

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

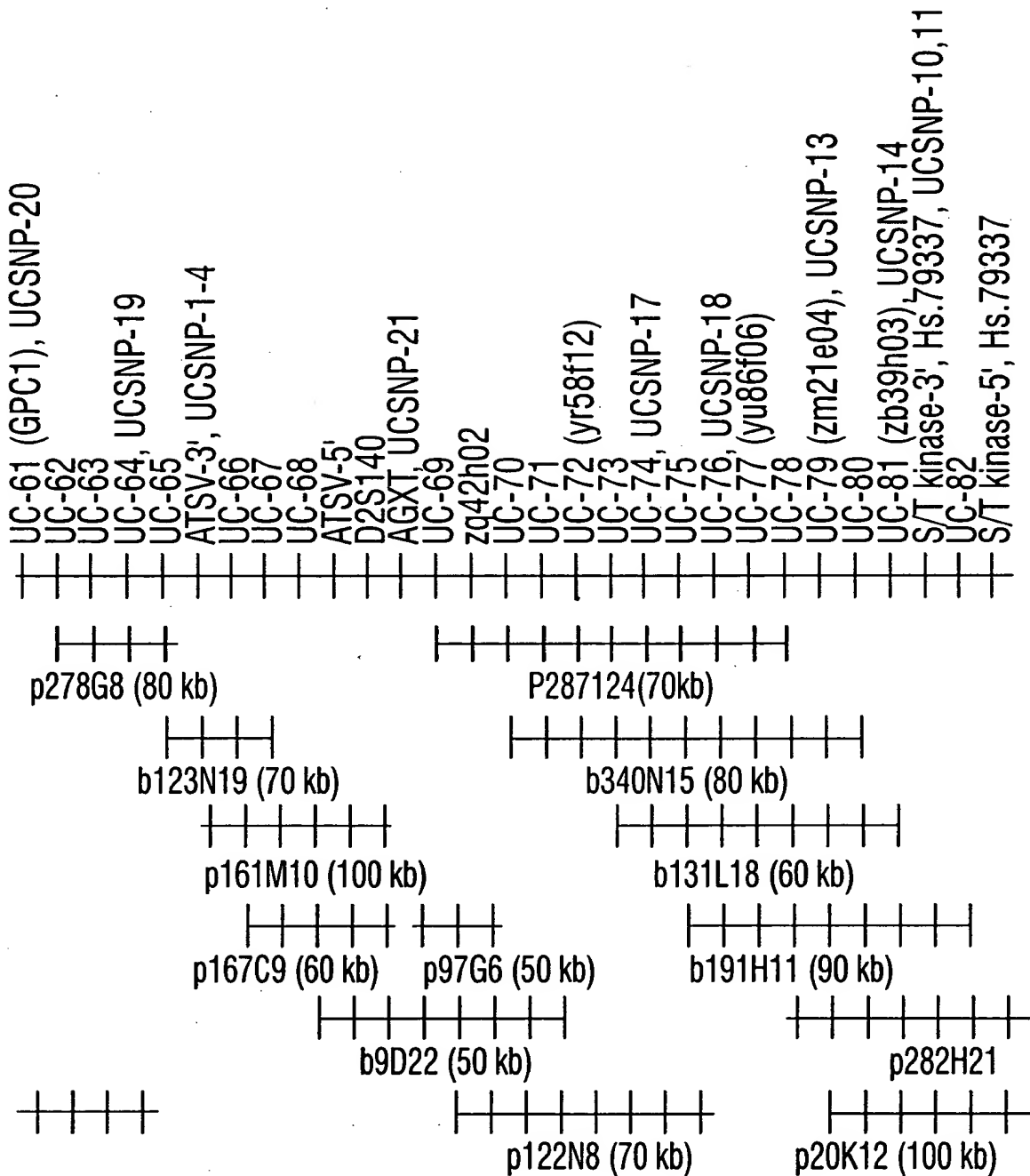


FIG. 2B

O.G. FIG.		SUBCLASS
APPROVED BY	CLASS	
CRAFTSMAN		

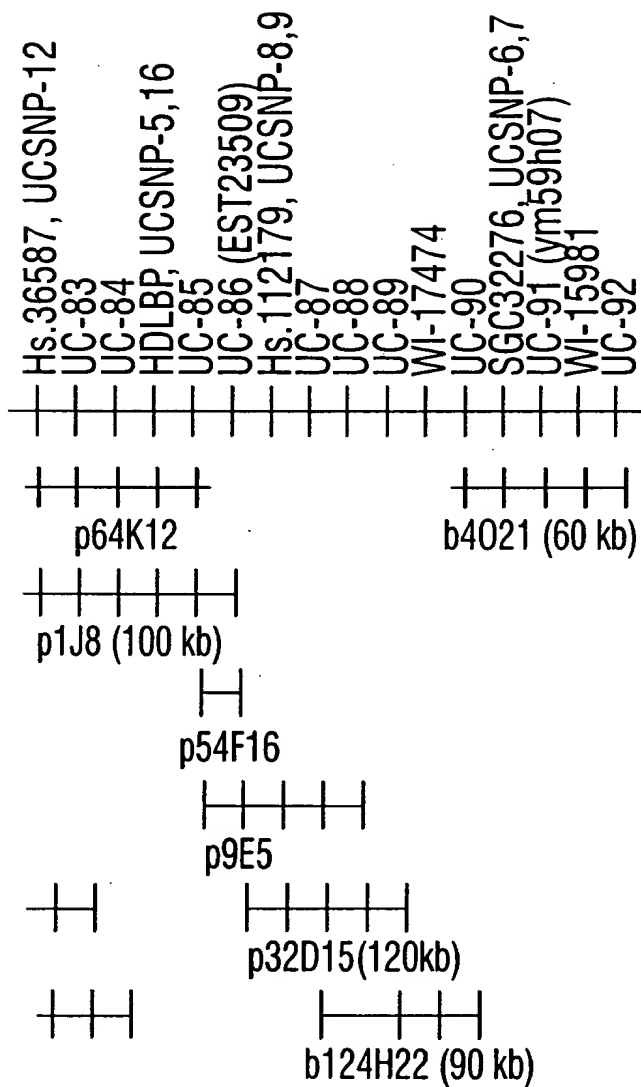
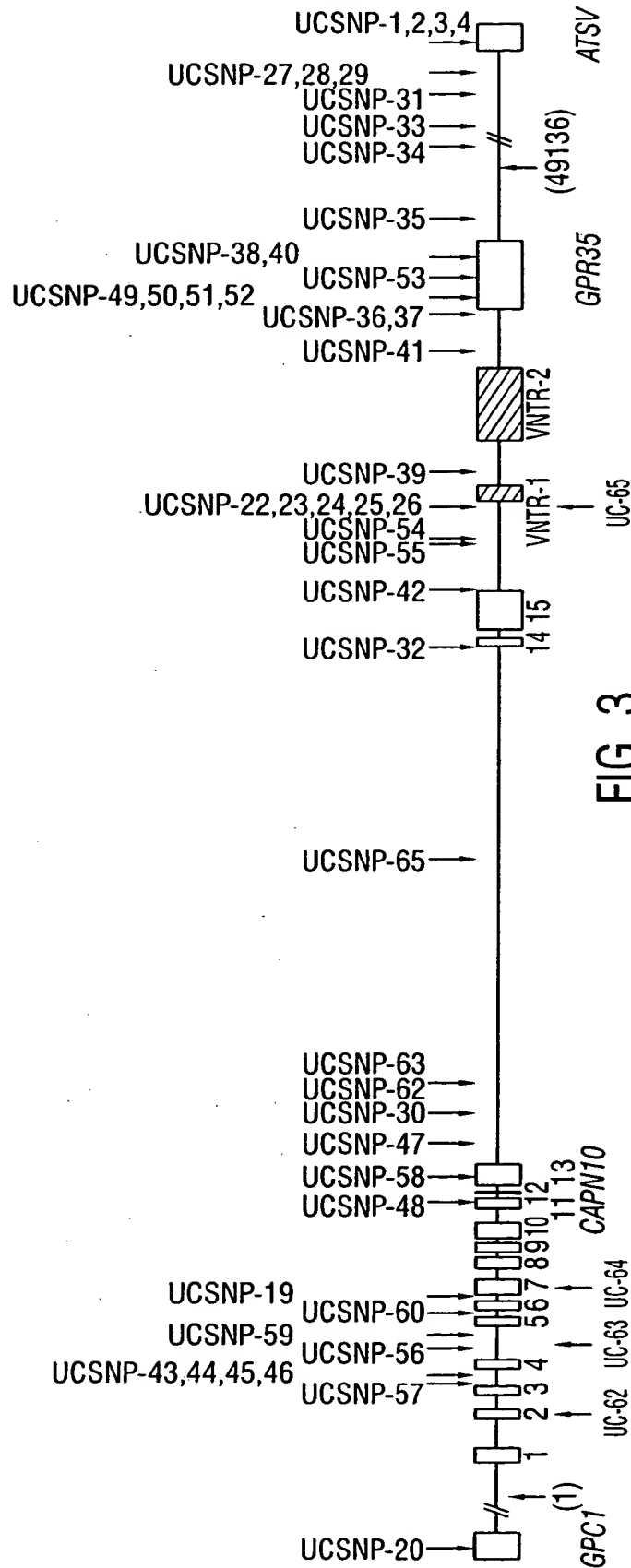


FIG. 2C

APPROVED	Q.C. FIG.	SUBCLASS
BY	CLASS	
DRAFTSMAN		





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APPROVED BY DEFTSMAN	O.G. FIG.	SUBCLASS
	CLASS	

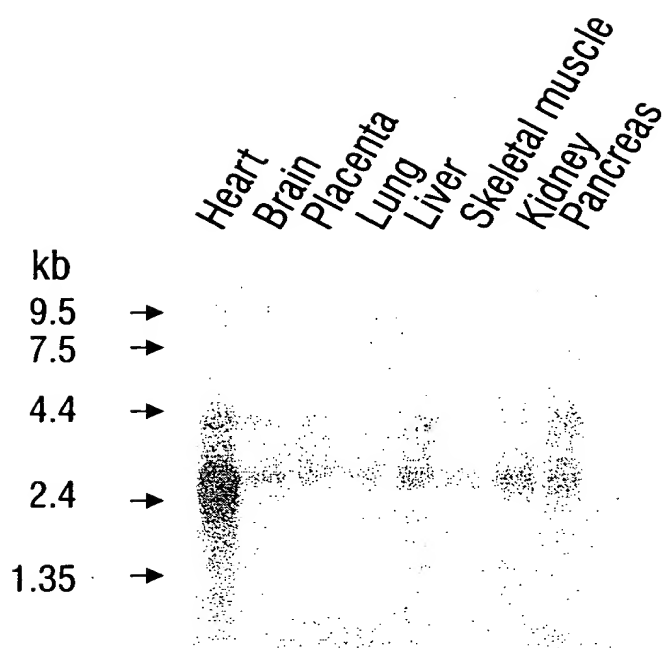


FIG. 4



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hCAPN5

MFSCVKPYEDQNYSA LRQDCRRRK'
MVDVVIDERLPTVNNQLIYCHSNSI
RKVRLGHGLLAFFKSEKLDMI RLR
QYIFEVKKPEDEVLCIQQRPKRS'
VTQVHVLGAAGLKDSP TGANSYVI:

mCAPN6

MGPPLKLFKNQKYQELKQECMKDGI
EWTEVVIDDLLPTINGDLVFSFST:
IRKLRLGERLVEVFSTEKLYMVRLI
IFTVPEDGHKVMISLQQKDLRTYRI
VTQITVHSAEGLEKKYANETVNPY:

hCAPN3

MPTVISASVAPRTAAEPRSPGPVPI
WFLAAIACLT LNQHLLFRVIPHDQ:
GSLMGCSIDDGTNMTYGTSPSGLNI
QHQVTEDEGEFWMSYEDFIYHFTKLI
KQHLQKDFFLYNASKARSKTYINMI
QESEEQQQFRNIFKQIAGDDMEIC:
MNIDFDSFICCFVRLEGMFRAFHAI

FIG. 5A

APPROVED	CLASS	SUBCLASS
BY		
DRAFTSMAN		



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VL FEDPLFPATDDSLYYKGTPGP AV
RNEFWCALVEKAYAKLAGCYQALDG
NPWGEREWNGPWSDTSEEWQKVS KS
TRREGKGENLAIGFDIYKVEENRQY
IKCEGDKVRS AVQKGTSTPEYNVKG

RLFC DPTFLP ENDSLFFNRLLP GK V
SMNEFWNALLEKAYAKLLGCYEALD
RNPLGRQEWSGPWSEISEEWQQLT V
RMGRPDNYIIGFELFKVEMNRRFRL
LIIKCGKEEVRS PVQKNTVHAIFDT

HPAQSKATEAGGGNPSGIYS AIISR
SFIENYAGIFHFQFWRYGEWVDVVI
MGELIARMVRNMDNSLLQDSDLDPR
EICNLTADALQSDKLQTVTVSVNEG
REVSQRFRLLPPSEYVIVPSTYEPHQ
ADELKKVLNTVVNKHKDLKTHGFTL
FDKDG DGI I K LNVLEWLQLTMYA 8

FIG. 5B



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RWKRPKGICEDPRLFVDGISSHDLH
GNTADALVDFTGGVSEPIDLTEGDF
EREKMGVTVQDDGEFWMTFEDVCRY
RMHSLQHKAAASSIYINSRSVFLRTD
IFYRKKLSQPITVQVWNHRVLKDEF

VWKRPQDISDDPHLIVGNISNHQLI
GLTITDIIMDFTGTLAEIIDMQKGR
TDRKNLGLVMSDDGEFWMSLEDFCH
HHLYIQERAGTSTYIDTRTVFLSKY
QAVFYRRTTDIPIIIQVWNSRKFC

NFPIIGVKEKTFEQLHKKCLEKKVL
DDCLPTYNNQLVFTKSNHRNEFWSA
GSDEPRTRTIIPVQYETRMACGLVR
RWVRGCSAGGCRNFPDFTWNPQYR
EGEFILRVFSEKRNLSEEVENTISV
ESCRSMIALMDTDGSGKLNLEFHH

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FIG. 5C

QGQVGNCWFVAACSSLASRESLWQK
ANDETKRNQLFERMLKVHSRGGLIS
FTDIIKCRVINTSHLSIHKTWEER
QPEGRYVIIPTTFEPGHTGEFLLRV
LGQVHLKADPDNLQALHTLHLRDRN

QGR LGN KAM I S A F S C L A V Q E S H W T K
Y T D L V E E K Y K L F G E L Y K T F T K G G L I
N F H K L N V C R N V N N P V F G R K E L E S V V
L K K G S Y V L V P T M F Q H G R T S E F L L R I
Q F L G Q V T L D A D P S D C R D L K S L Y L R K

Y V D P E F P P D E T S L F Y S Q K F P I Q F V W
L L E K A Y A K L H G S Y E A L K G G N T T E A M
G H A Y S V T G L D E V P F K G E K V K L V R L R
L K L L E E D D D P D D S E V I C S F L V A L M Q
D R P V K K K K T K P I I F V S D R A N S N K E L
L W N K I K A W Q K I F K H Y D T D Q S G T I N S

FIG. 5D

O.G. FIG.		SUBCLASS
CLASS		
APPROVED BY	DRAFTSMAN	



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V I P D W K E Q E W D P R K A Q A Y A G I F H F H
A S I K A V T A A D M E A R L A C G L V K G H A Y
L H G A W T L H E D P R Q N R G G G C I N H K D T
F T D V P S N C R E L R L D K P P H T C W S S L C
S R Q P S N L P G T V A V H I L S S T S L M A V

A I P N H K D Q E W D P R K P E K Y A G I F H F R
C C S I E S P S Q E E Q E V E T D W G L L K G Y T
G C W T V D D D P L M N R S G G C Y N N R D T F L
F S E V P V Q L R E L T L D M P K M S C W N L A R
K G G P T A K V K Q G H I S F K V I S S D D L T E

K R P P E I C E N P R F I I D G A N R T D I C Q G
E D F T G G V A E F F E I R D A P S D M Y K I M K
N P W G Q V E W N G S W S D R W K D W S F V D K D
K N R R K D R K L G A S L F T I G F A I Y E V P K
G V D Q E S E E G K G K T S P D K Q K Q S P Q P Q
Y E M R N A V N D A G F H L N N Q L Y D I I T M R

FIG. 5E



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FWRLG
AVTDV
FFQNP
GYPQL
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APPROVED	BY	CLASS	SUBCLASS
	DRAFTSMAN		

FWHFG
YTMTD
QNPQY
GYPKV
L 641

ELGDC
KAIER
EKARL
EMHGN
PGSSD
YADKH

FIG. 5F

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hCAPN9

MPYLYRAPGPQAHVPK DARITHS
IFHFQFWQHSEWLDVV IDDR LPTF
TGIDQVSFRGQRIELIRIRNPWGQ
DEGQEECSFLVALMQKDRRKLKRF
TEEEQRFRA LFEQVAGEDMEVTAE
LDFDDFLNCLVRL ENASRVFQALS

hCAPN1

MSEEIITPVYCTGVSAQVQKQRAR
LLHRVVP H GQSFQNGYAGIFHFQL
DMEAITFKKL VKGHAYSVTGAKQV
PATFWVNPQFKIRLDETDDPDDYG
KSAGTVELDDQIQANLPDEQVLSE
SAGFKLNKKLYELIITRYSEPDLA

hCAPN2

MAGIAAKLAKDREAAEGLGSHERA
SFQENYAGIFHFQFWQYGEWVEVV
VKGHAYSVTGAEEVESNGSLQKLI
LIKLEEEDEDEDEEDGESGCTFLVGL
EANLEEFDIS EDDIDDGVRRLFAQ
IVARFADDQLIIDFDNFVRCLVRL

FIG. 5G



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SGQSFEQMRQEC LQRGTLFEDADFP
RDRLVFLHSADHNEFW SALLEKAYA
VEWNGSWS DSSPEWRSVGP AEQKRL
GANVLTIGYAIYEC PDKDEHLN KDF
ELEYVLNAV LQKKKDIKF KLSLIS
TKNKEFIHLN INEFIH LTMNI 690

ELGLGRHENA IKYLGQDYEQLRVRC
WQFGEWVDVVVDDLLPIKDGKLVFV
NYRGQVVS LIRMRNPWGEVEWTGAW
DRESGCSFVLALMQKHRRRERRRFRGR
EEIDENFKALFRQLAGEDMEISVKE
VDFDNFVCC LVRLETMFRFFKTLDT

IKYLNQDYEALRNECLEAGTLFQDP
VDDRLPTKDGELLFVHSAEGSEFWS
RIRNPWGEVEWTGRWNDNCPSWNTI
IQKHRRRQRKMGEDMHTIGFGIYEV
LAGEDAEISAFELQ TILRRVLAKRQ
ETLFKIFKQLDPENTGTIELDLISW

FIG. 5H



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SGQSFEQMRQEC LQRGTLFEDADFP
RDRLVFLHSADHNEFWSALLEKAYA
VEWNGSWSDSSPEWRSVGP AEQKRL
GANVLTIGYAIYECPDKDEHLNKF
ELEYVLNAV LQKKKDIKF KLSLIS
TKNKEFIHLNINEFIH LTMNI 690

ELGLGRHENAIKYL GQDYEQLRVRC
WQFGEWVDV VDDLLPIKDGKLVFV
NYRGQVVS LIRMRNPWGEVEWTGAW
DRESGC SFVLALMQKHRRRRERFRGR
EEIDENFKALFRQLAGEDMEISVKE
VDFDNFVCC LVRL ETMFRFFKTLDT

IKYLNQDYEALRNECLEAGTLFQDP
VDDRLPTKDGELLFVHSAEGSEFWS
RIRNPWGEVEWTGRWNDNCPSWNTI
IQKHRRRRQRKMGEDMHTIGFGIYEV
LAGEDAEISAFELQ TILRRVLAKRQ
ETLFKIFKQLDPENTGTIELDLISW

FIG. 5I



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ASNSSLFYSERPQIPFVWKRPGEIV
KLNGSYEALKGGS AIEAMEDFTGGV
CHTALDDGEFWMAFKDFKAHFDKVE
FRYHASRARSKTFINLREVSDRFKL
CKNIISLMDTSGNGKLEFDEFKVFVW

LQSGTLFRDEAFPPVPQSLGYKDLG
HSAEGNEFWSALLEKAYAKVNGSYE
SDSSSEWNNVDPYERDQLRVKMEDG
DMETIGFAVYEVPPELVGQPAVHLK
LRTILNRIISKHKDLRTKGFSLESC
DLDGVVTFDLFKWLQLTMFA 714

SFPAIP SALGFKE LGPYSSKTRGMR
ALLEKAYAKINGCYEALS GGATTEG
DPEERERLTRRHEDGEFWMSFSDFL
PEELSGQTNIHLSKNFFLTNRARER
DIKSDGFSIETCKIMVDMLDSDGSG
LCFSVL 700

FIG. 5J



APPROVED	BY	CLASS	SUBCLASS

KNPEFILGGATRTRDQCQGE LGDCWL
AETFQTK EAPENFY EILEKALKRGS
ICNLTPDALEEDAIHKWEVT VHQGS
PPGEYILIPSTFEPHQEADFC LRIF
DKLKQWINLFLRFDADKSGTMSTYE

PNSSKTYGIKWKRPT ELLSNPQFIV
ALSGGSTSEGFEDFTGGVTEWYELR
EFWMSFRDFMREFT RLEICNLTPDA
RDFFLANASRARSEQFINLREVSTR
RSMVNLMDRDGNGKLGLVEFNILWN

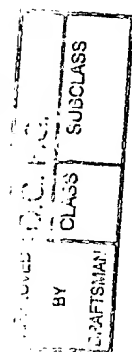
WKRPT EICADPQFIIGGATRTRDQC
FEDFTGGIAEWYELKKPPPNLFKII
RHYSRLEICNLTPDTLTS DTYKKWK
SDTFINLREVLNRFKLPPGEYILVP
KLGLKEFYILWTKIQKYQKIYREID

FIG. 5K



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LAAIASLTLNQKALARVIPQDQSFG
LLGCFIDTRSAAESEARTPFGLIKG
WVRGSTAGGCRNFLDTFWTNPQIKL
SEKKAITRDMDGNVDIDLPEPPKPT
LRTALKAAAGFQLSSHLLQLIVLRYA



DGATRTDICQGALGDCWLLAAIASL
KAPSDLYQIILKALERGSLLGCSID
LKSRTIRKWNTTLYEGTWRRGSTAG
FRLPPGEYVVVPSTFEPNKEGDFVL
RIRNYLSIFRKFDLDKSGSMSAYEM

GALGDCWLLAAIASLTNNEILARV
QKALQKGSLLGCSIDITSAADSEAI
LTKMDGNWRRGSTAGGCRNYPNTFW
STFEPNKDGDFCIRVFSEKKADYQA
VDRSGTMNSYEMRKALEEAGFKMPC

FIG. 5L



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P G Y A G
H A Y S V
S L T E K
P P D Q E
D E E L Q

T L N D T
I S S V L
G C R N Y
R F F S E
R M A I E

V P L N Q
T F Q K L
M N P Q Y
V D D E I
Q L H Q V

FIG. 5M



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rCAPN8

MAALAAGVSKQRAVAEGLGSNQNA
SFQKDYAGIFHFQFWQYGEWVEVV
VKGHAYSVTGVEEVNFHGRPEKLI
KIHLEVEDEDQEEGTSEPCCTVLL
TVSGHPHEPHPRDMDEEDEHVRS
LQQTIAMRYACSKLGVDENGFVACM

hCAPN10

MRAGRGATPARELFRDAAFPAADS
CLAGRLCFSRCQREDVFWLPLEK
LRIQNPWGRRCWQGLWREGGEGWS
HAADWAGRARALVGDSHTSWSPAS
VQLRGSWRVGQTAGGSRNFASYPT
IDRPSIHSQEMLGQFLQEVSVMAV

FIG. 5N

APPROVED	O.G. FILED	SUBCLASS
BY	CLASS	
DRAFTSMAN		

APPROVED FOR PUBLICATION	CLASS	SUBCLASS
BY		
DRAFTSMAN		

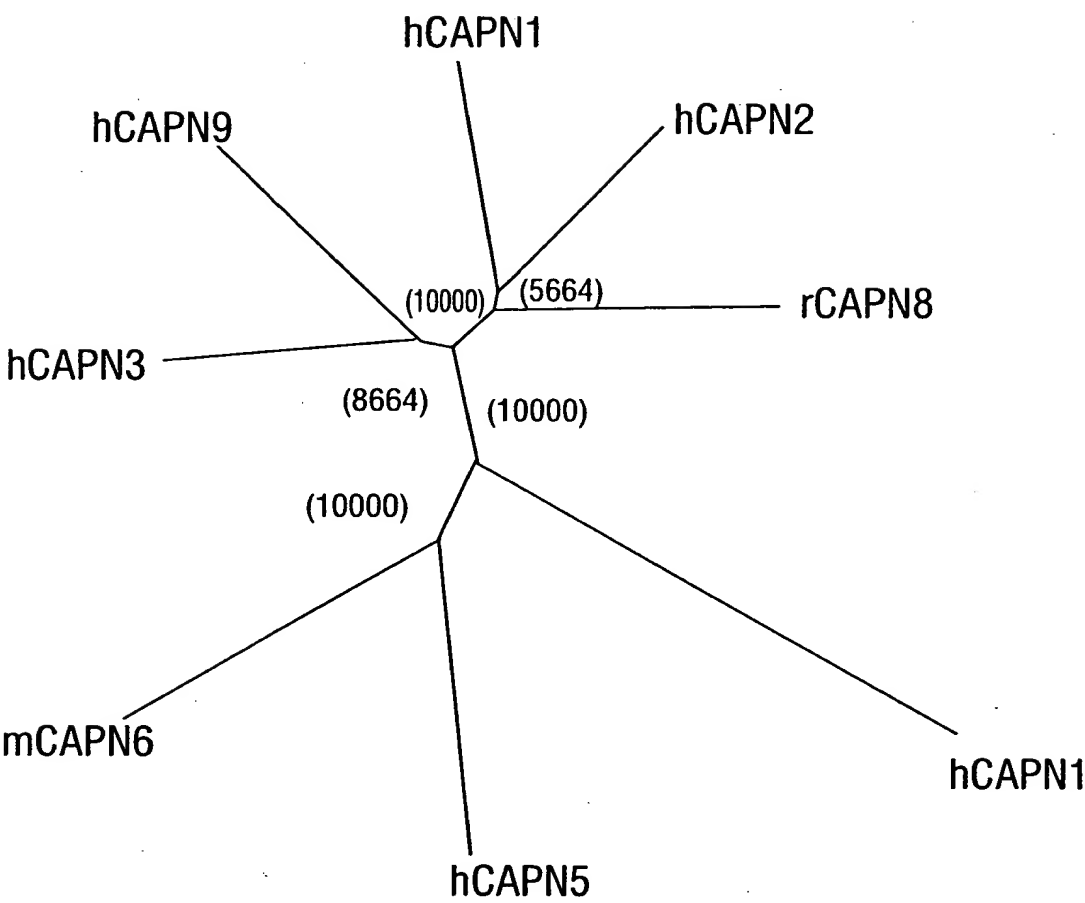


FIG. 6

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
CRAFTSMAN		

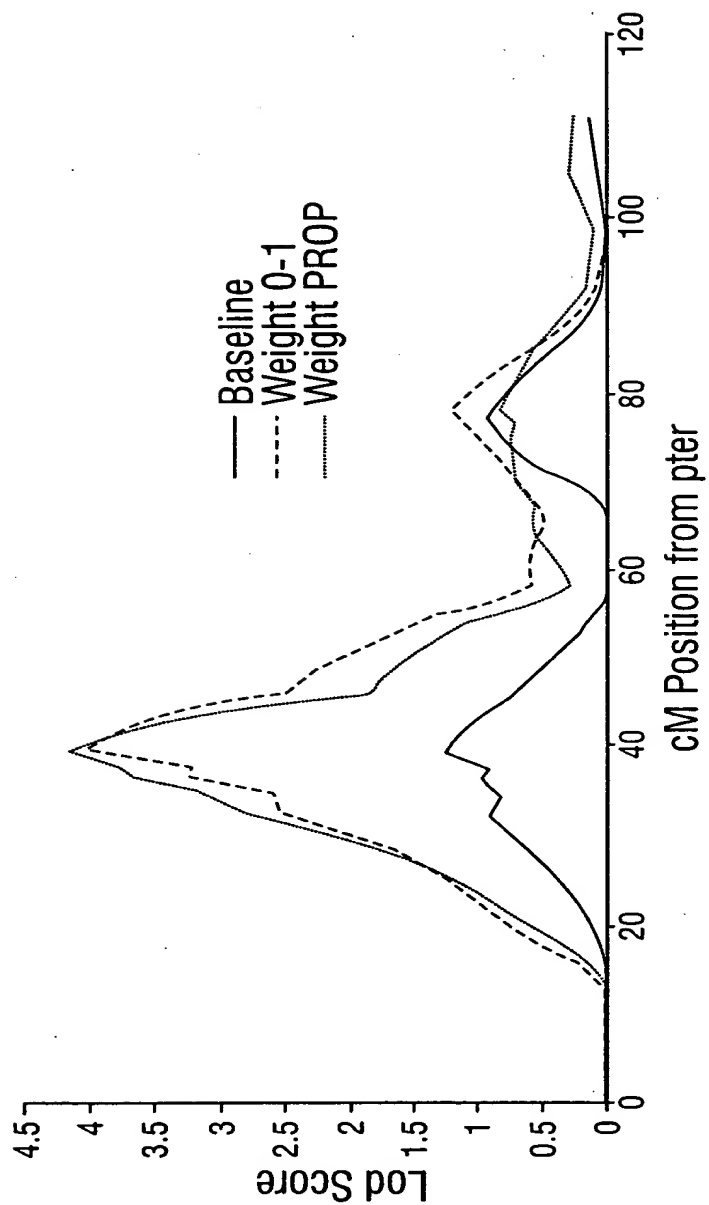
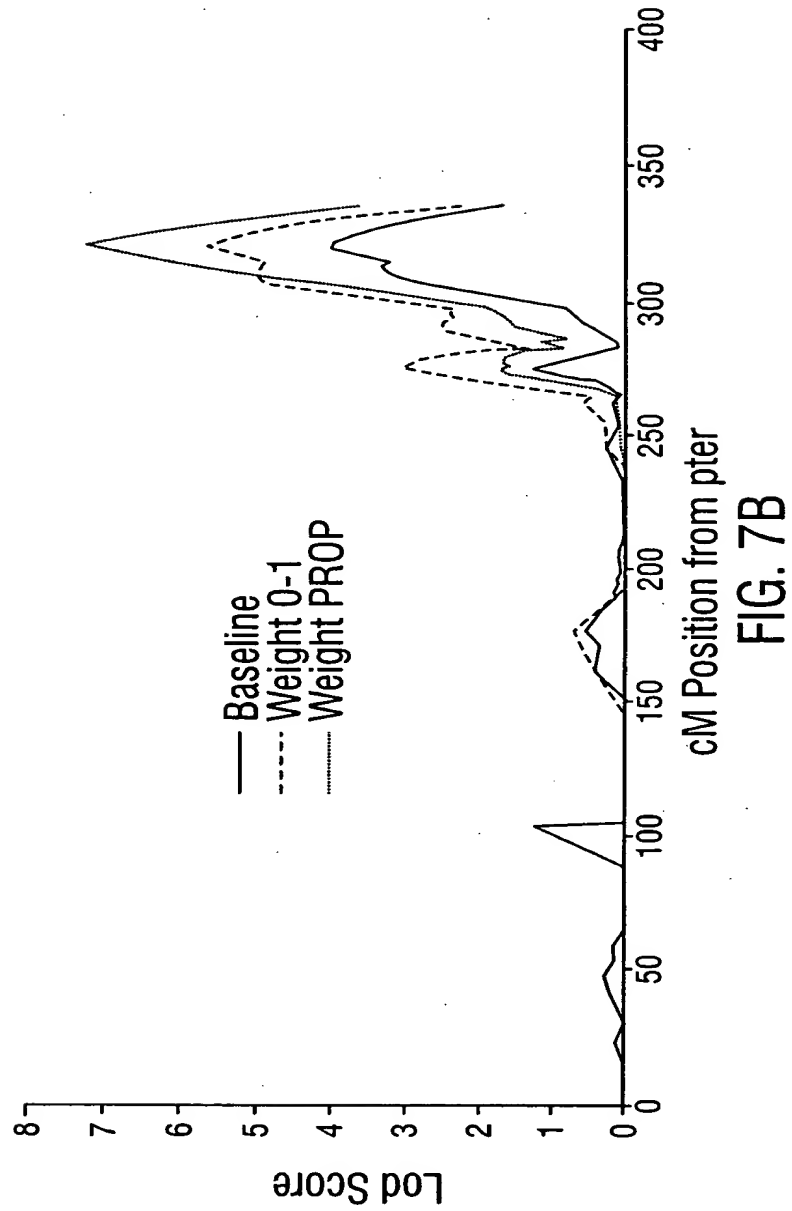
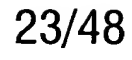


FIG. 7A





APPROVED	O.G. FIG.	
	CLASS	SUBCLASS
BY		
DRAFTSMAN		

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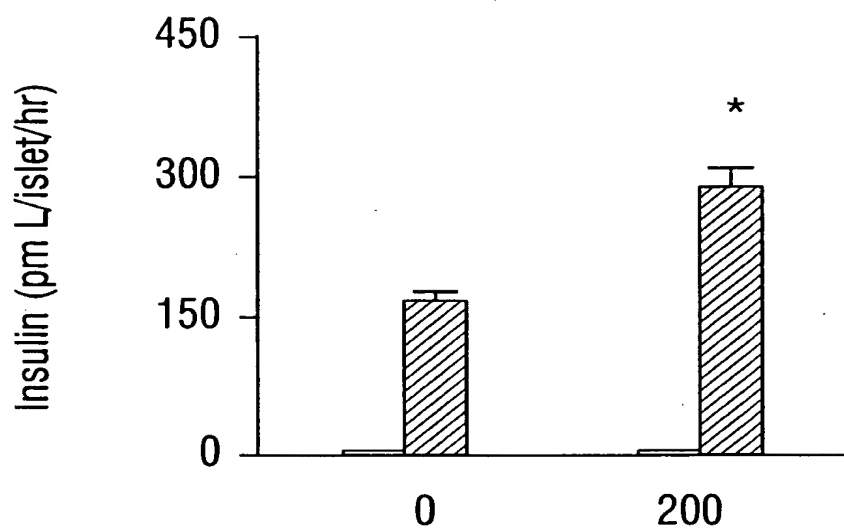


FIG. 8A

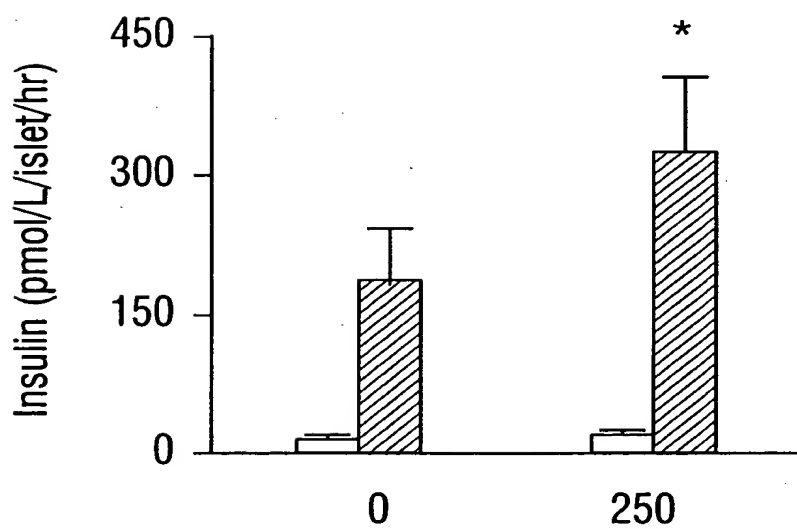


FIG. 8B

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APPROVED TO: C. FIG.	SUBCLASS
BY	CLASS
DRAFTSMAN	

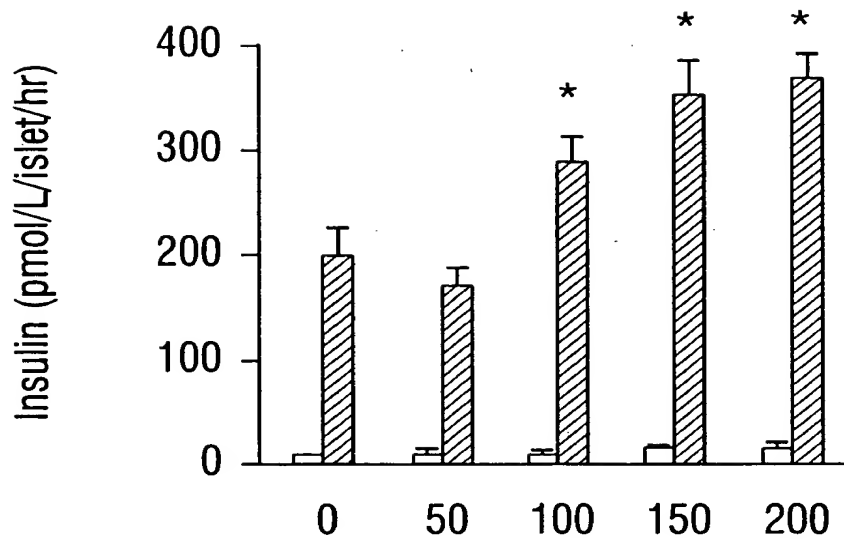


FIG. 8C

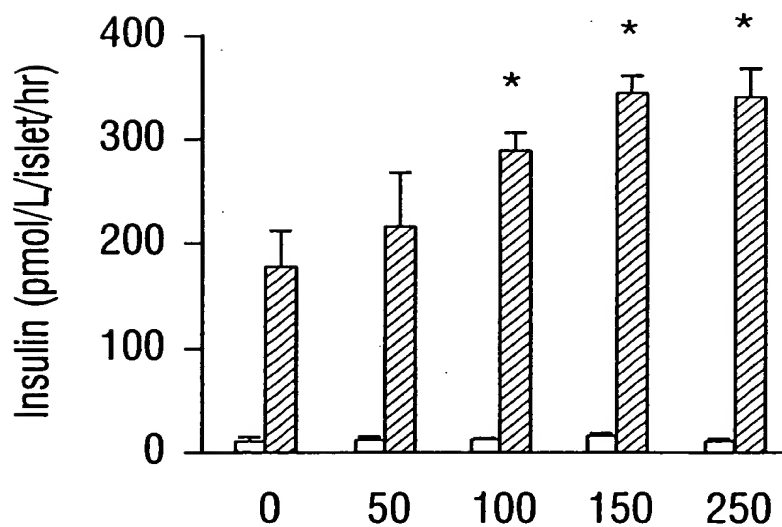


FIG. 8D

BY CLASS
 SUBCLASS
 DRAFTSMAN

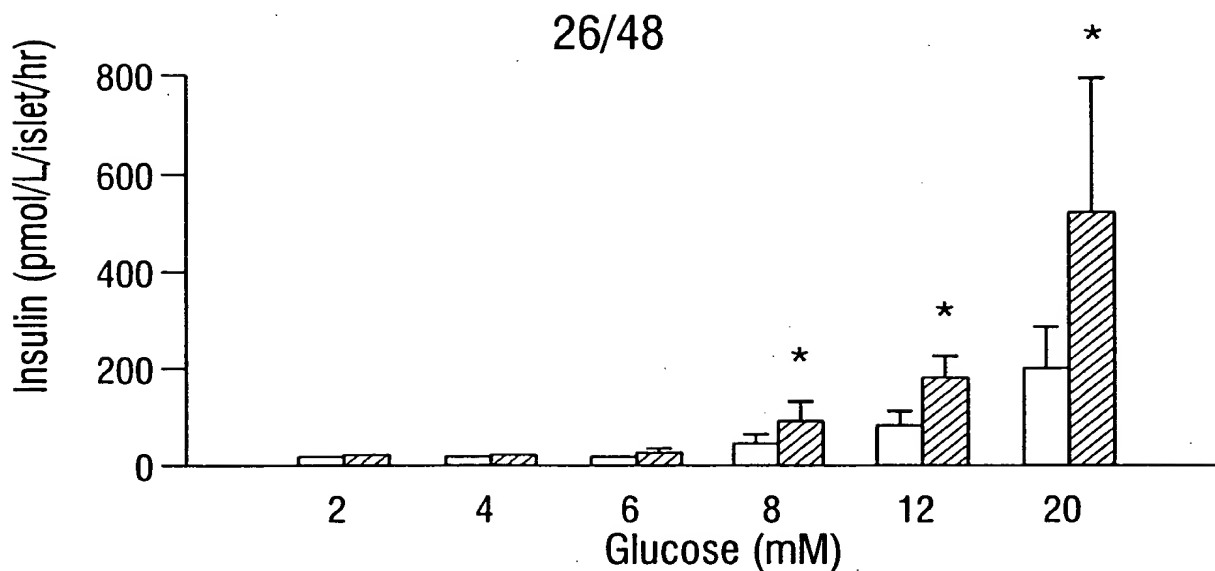


FIG. 9A

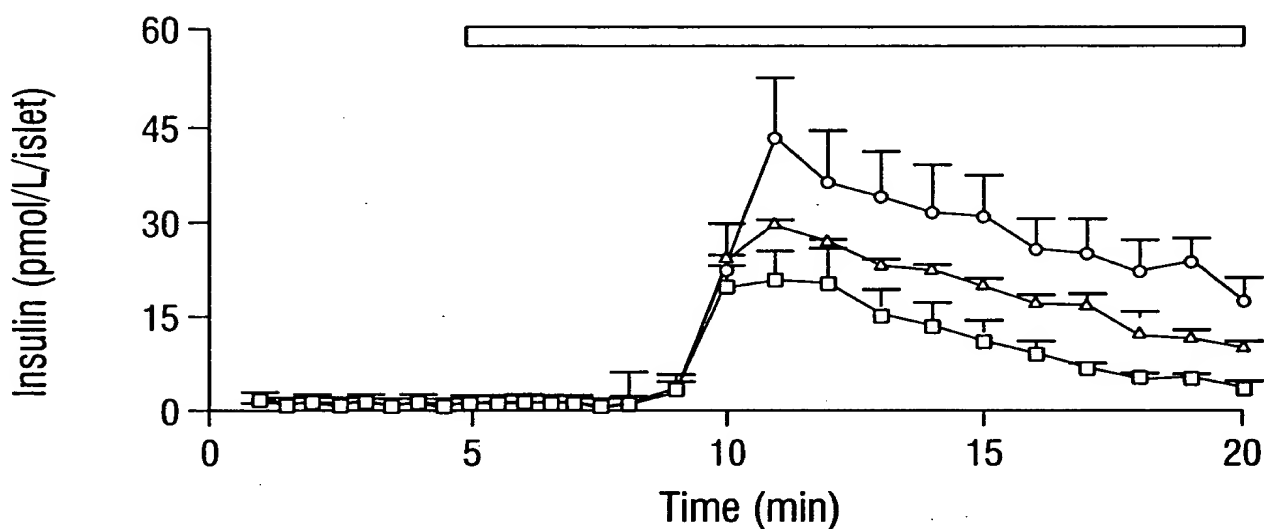


FIG. 9B

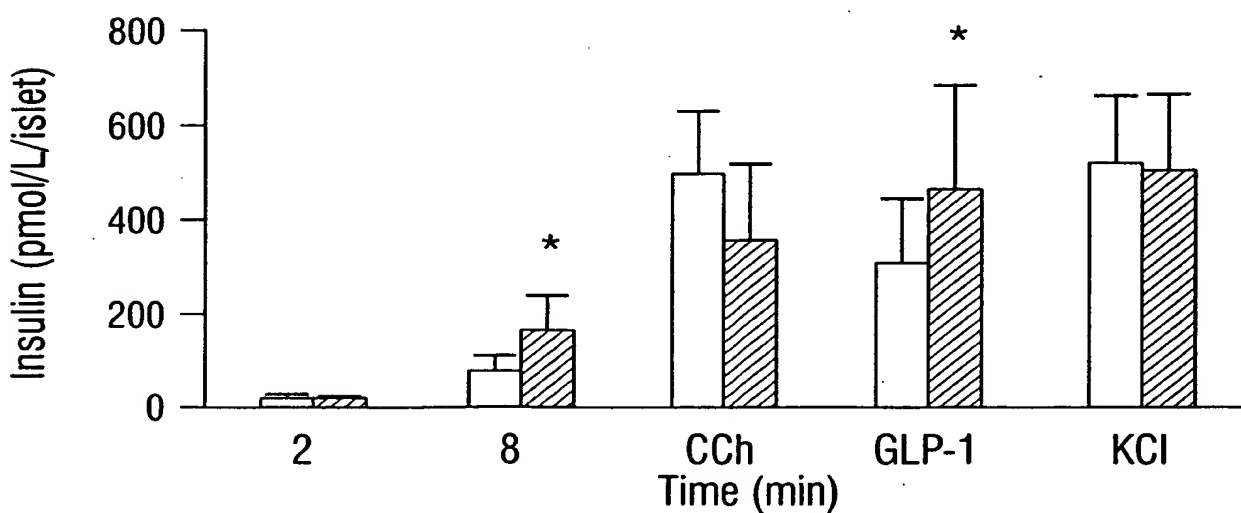
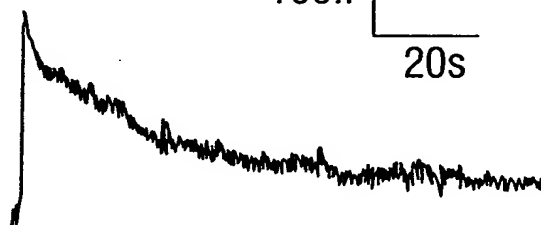


FIG. 9C

Control



ALLM



100fF
20s

FIG. 10A

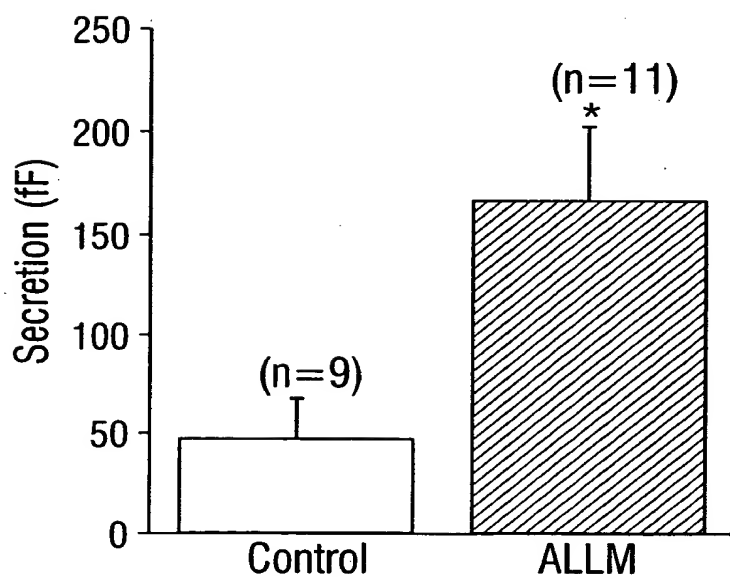


FIG. 10B

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APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

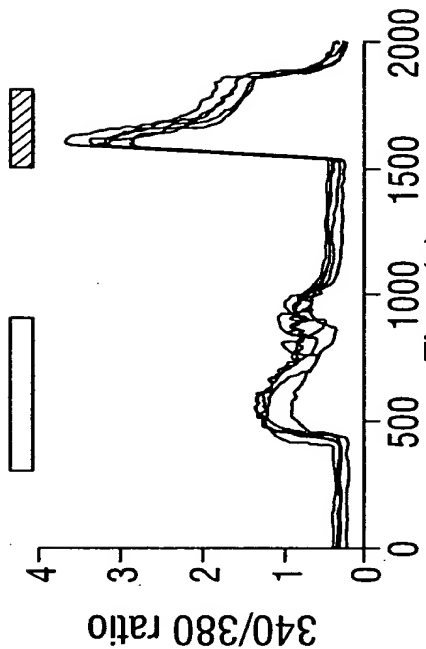


FIG. 11A

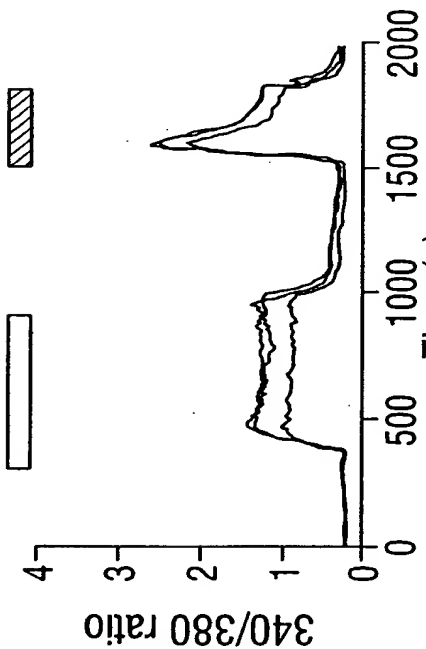


FIG. 11B

APPROVED	CLASS	SUBCLASS
BY		
DRAFTSMAN		

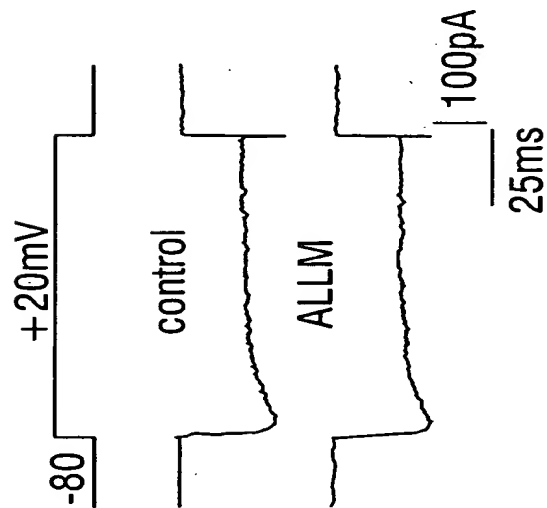


FIG. 11C

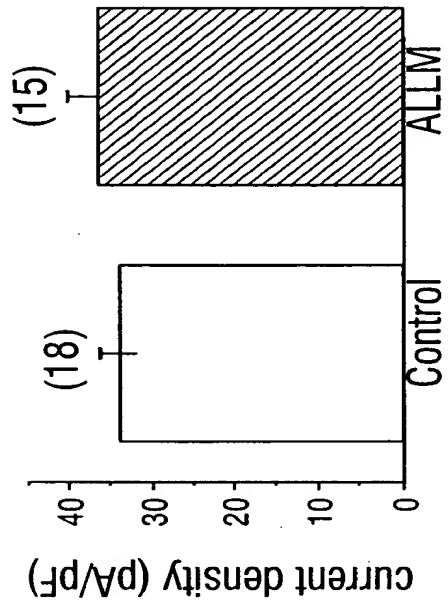


FIG. 11D



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FILED	BY	CLASS	SUBCLASS
1/20/03	1/20/03	1/20/03	1/20/03
1/20/03	1/20/03	1/20/03	1/20/03

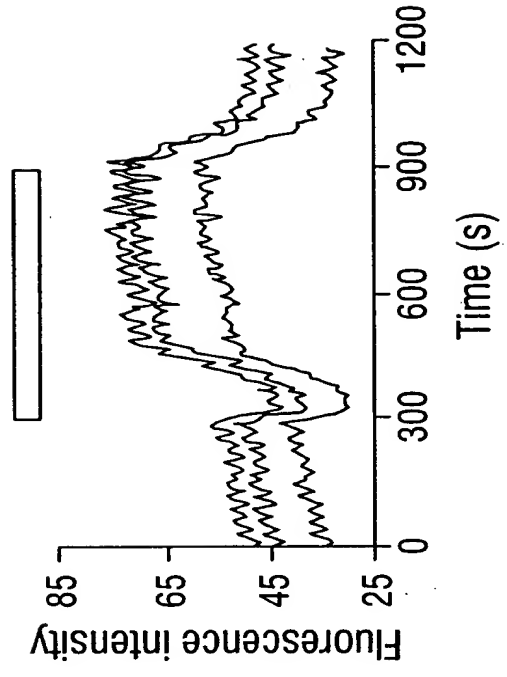


FIG. 11F

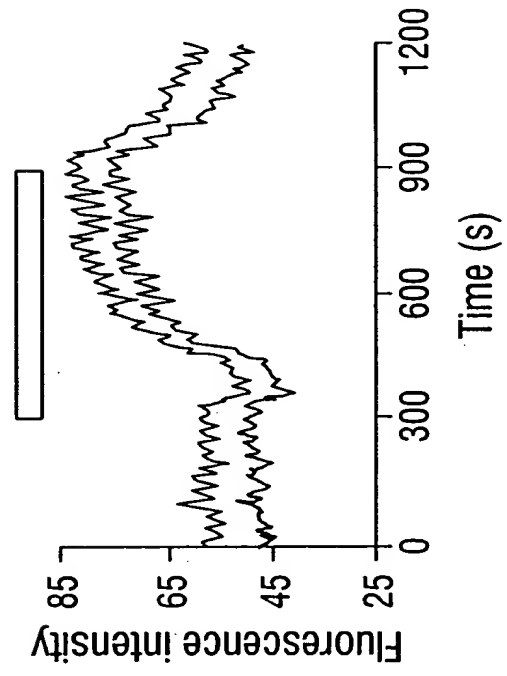
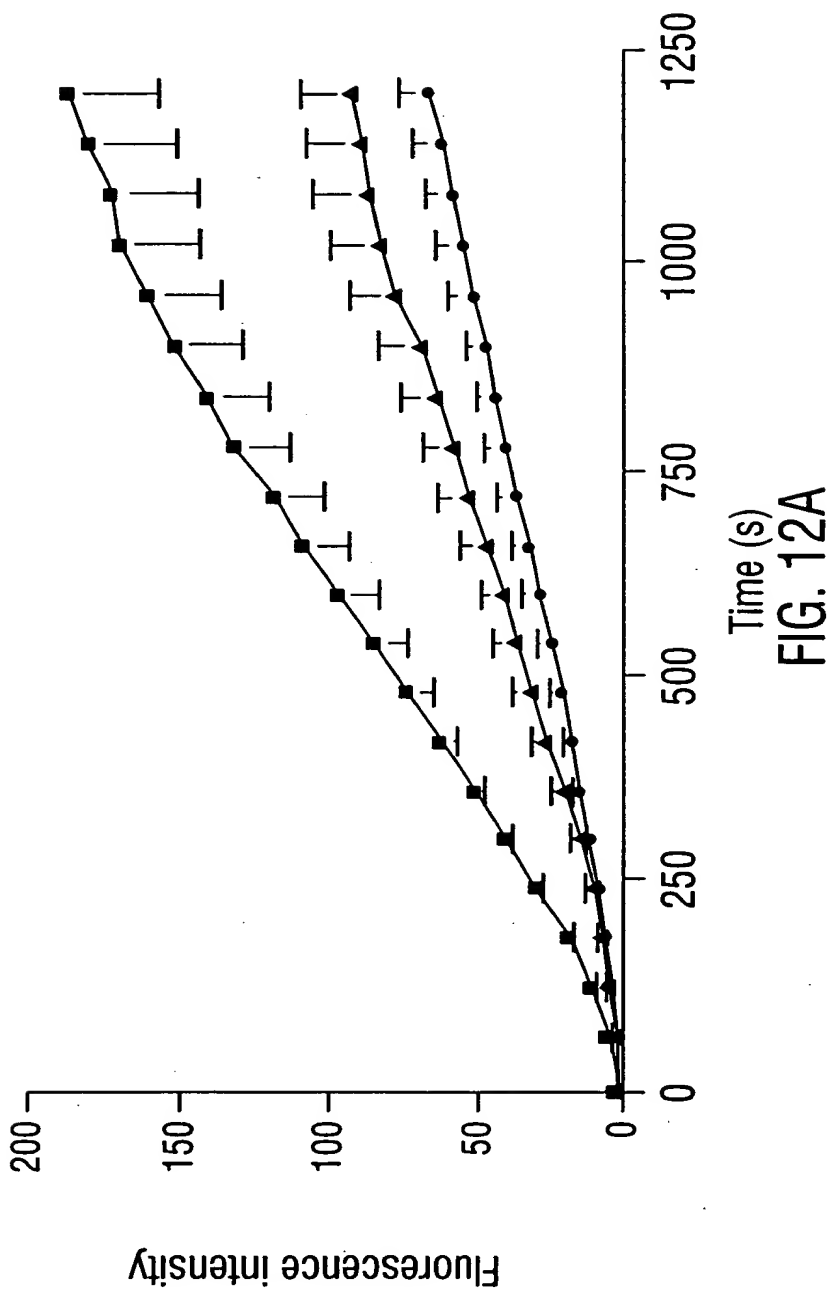
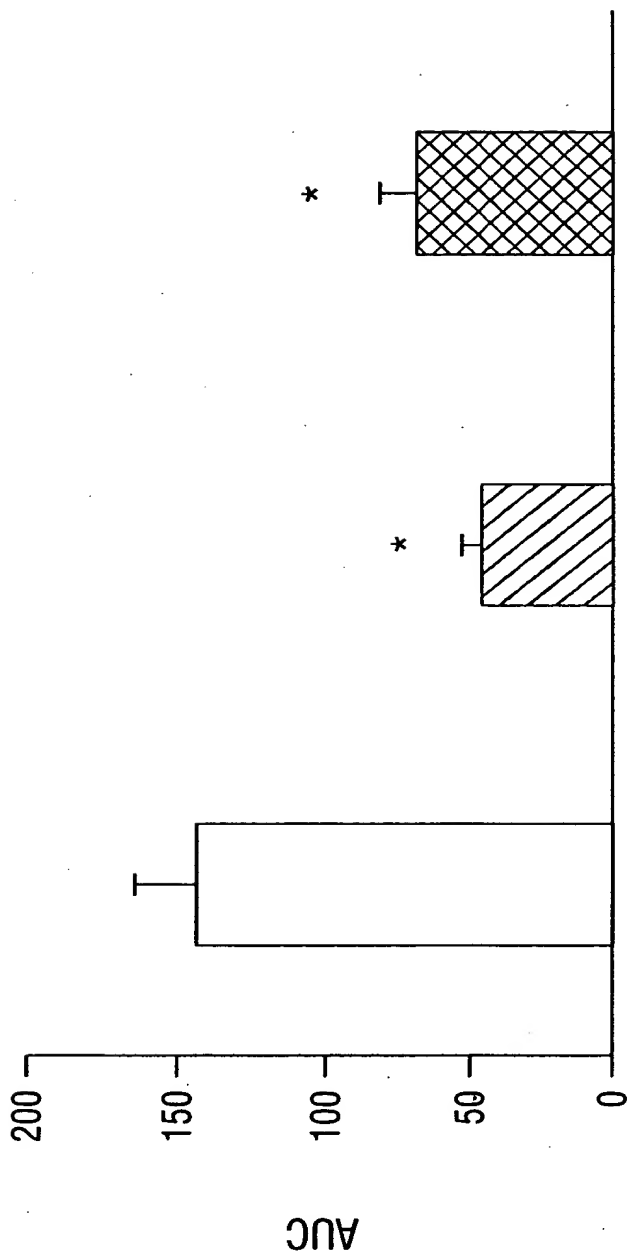


FIG. 11E

APPROVED	O.C. FIG.
BY	CLASS
DRAFTSMAN	SUBCLASS



APPROVED	O.C. FIG.	
BY	CLASS	SUBCLASS
CRAFTSMAN		



Time (s)
 FIG. 12B

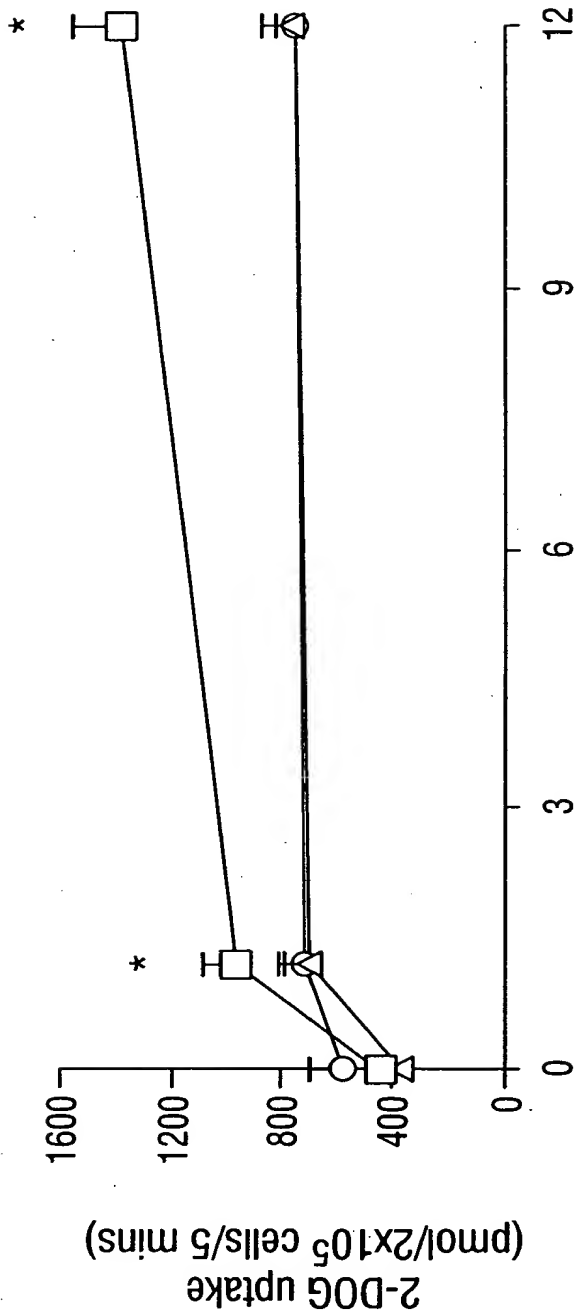


FIG. 13A

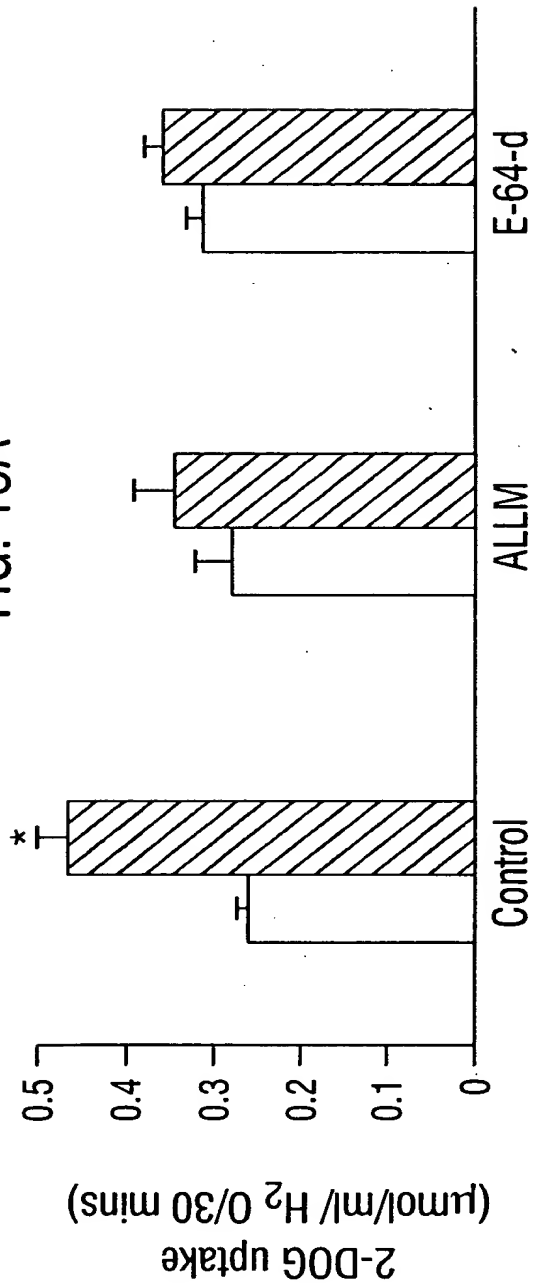


FIG. 13B

BY CLASS
 SUBCLASS
 ZURAFTSWAN

APPROVED	O.C. FIG.	CLASS	SUBCLASS
BY			
DRAFTSMAN			

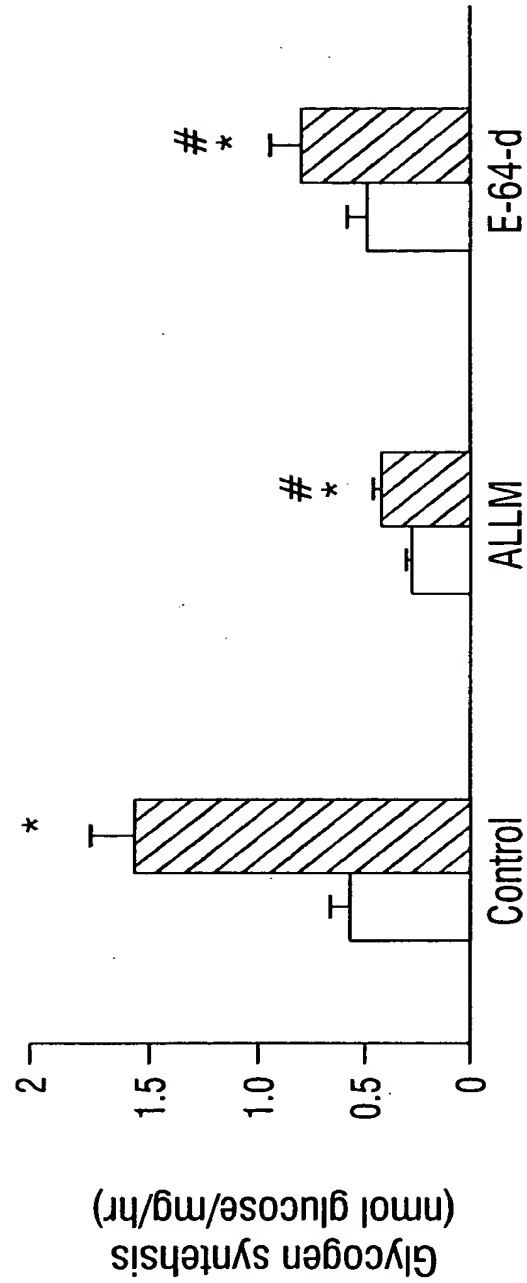


FIG. 13C

APPROVED	CLASS	SUBCLASS
BY		
DRAFTSMAN		

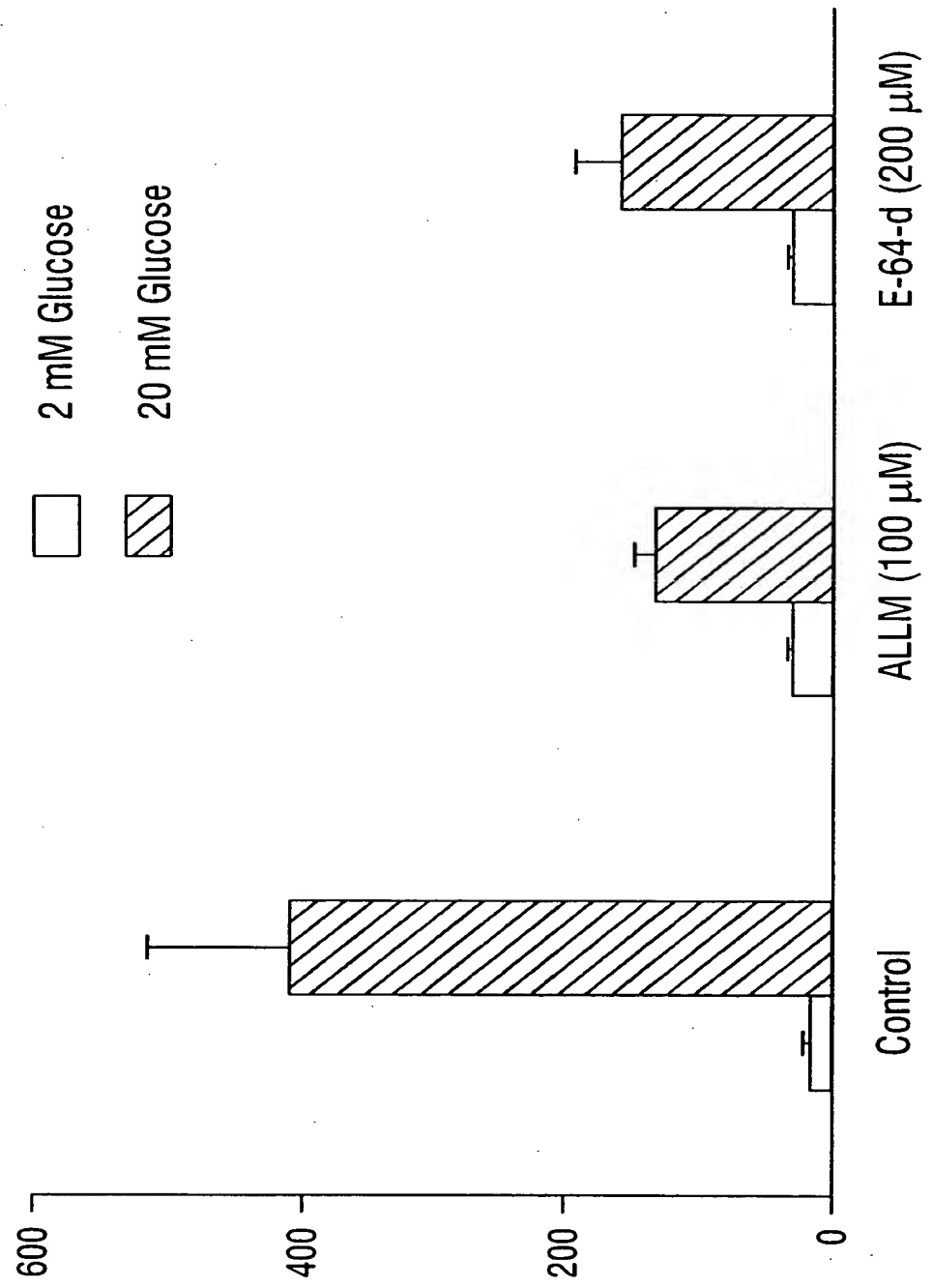


FIG. 14

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APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

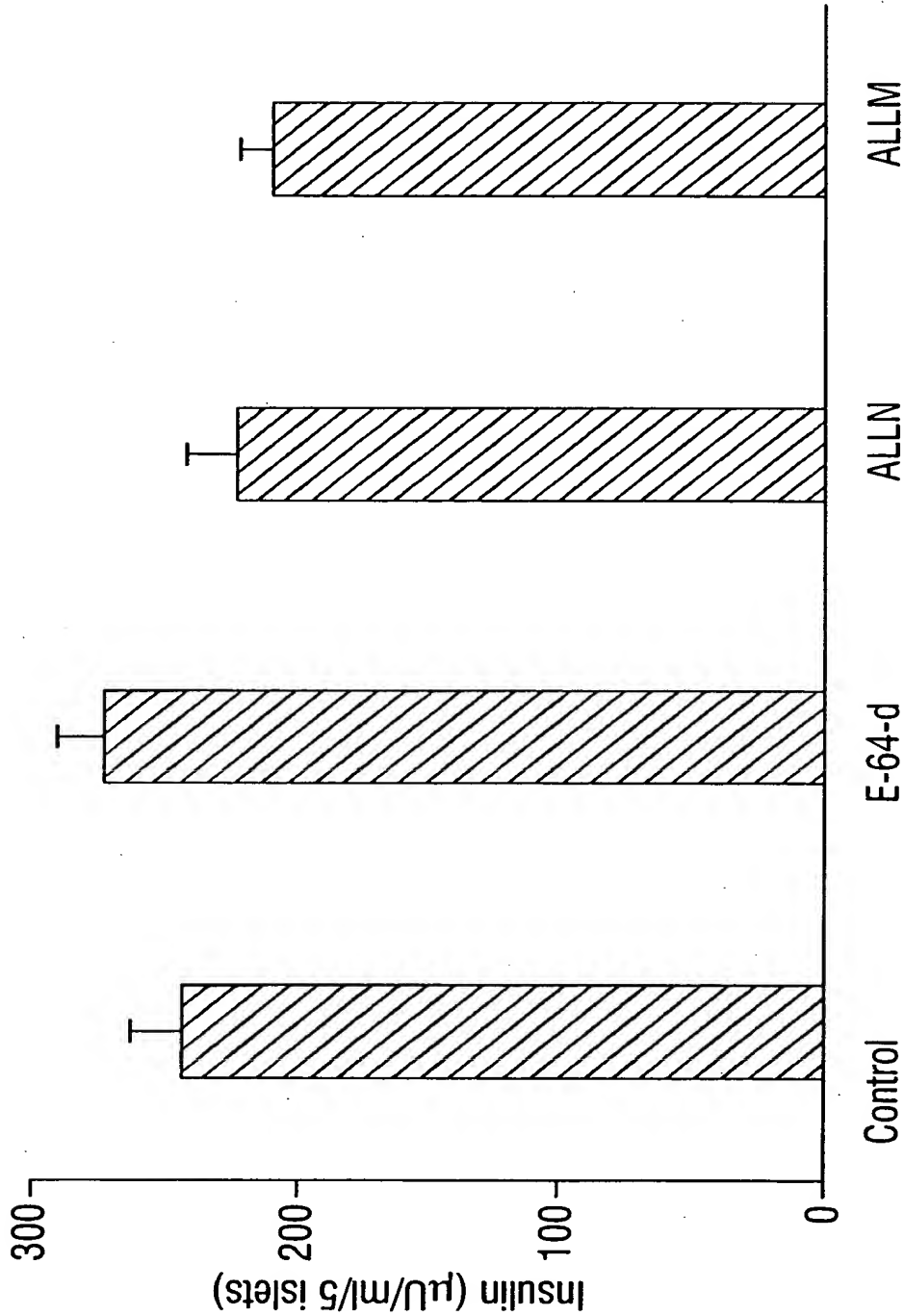


FIG. 15

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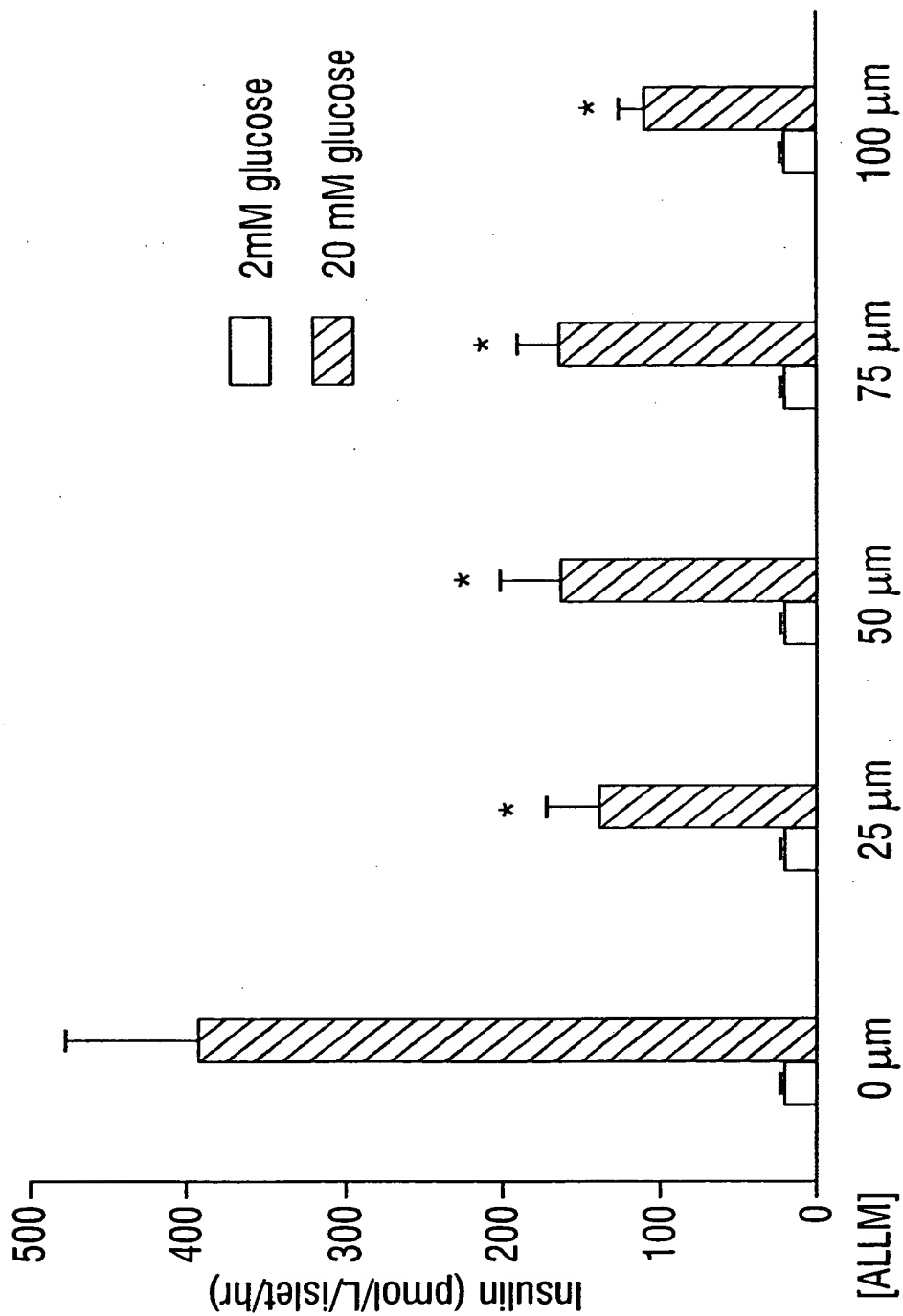


FIG. 16

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

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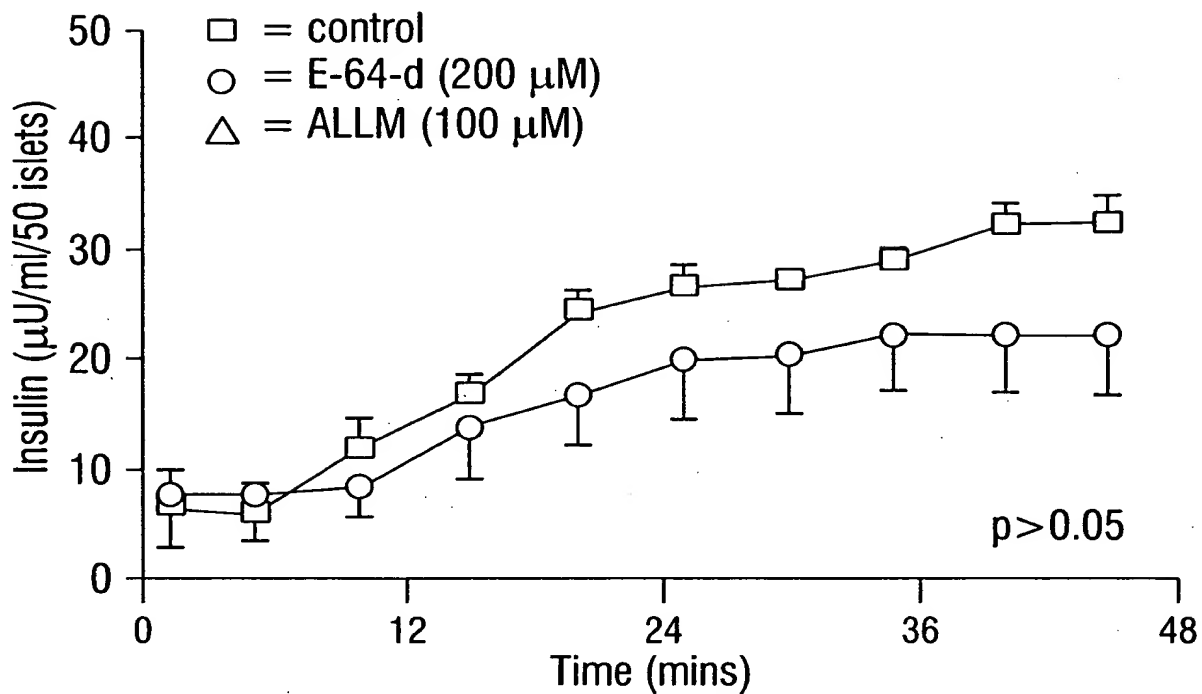


FIG. 17A

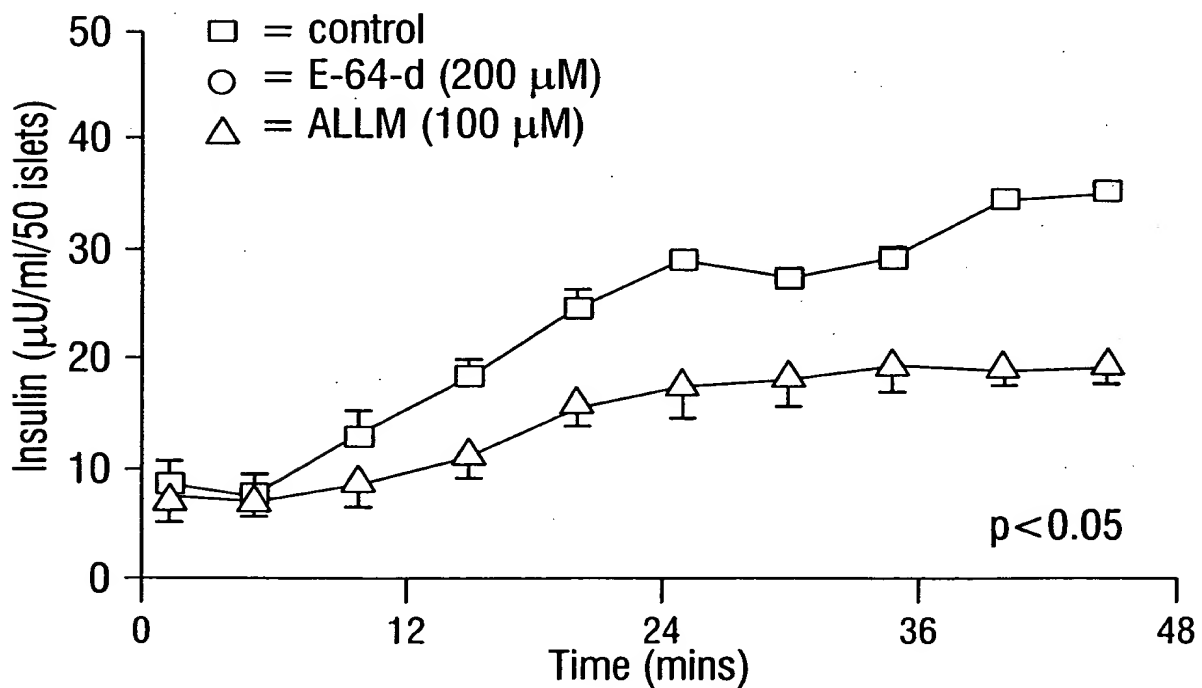
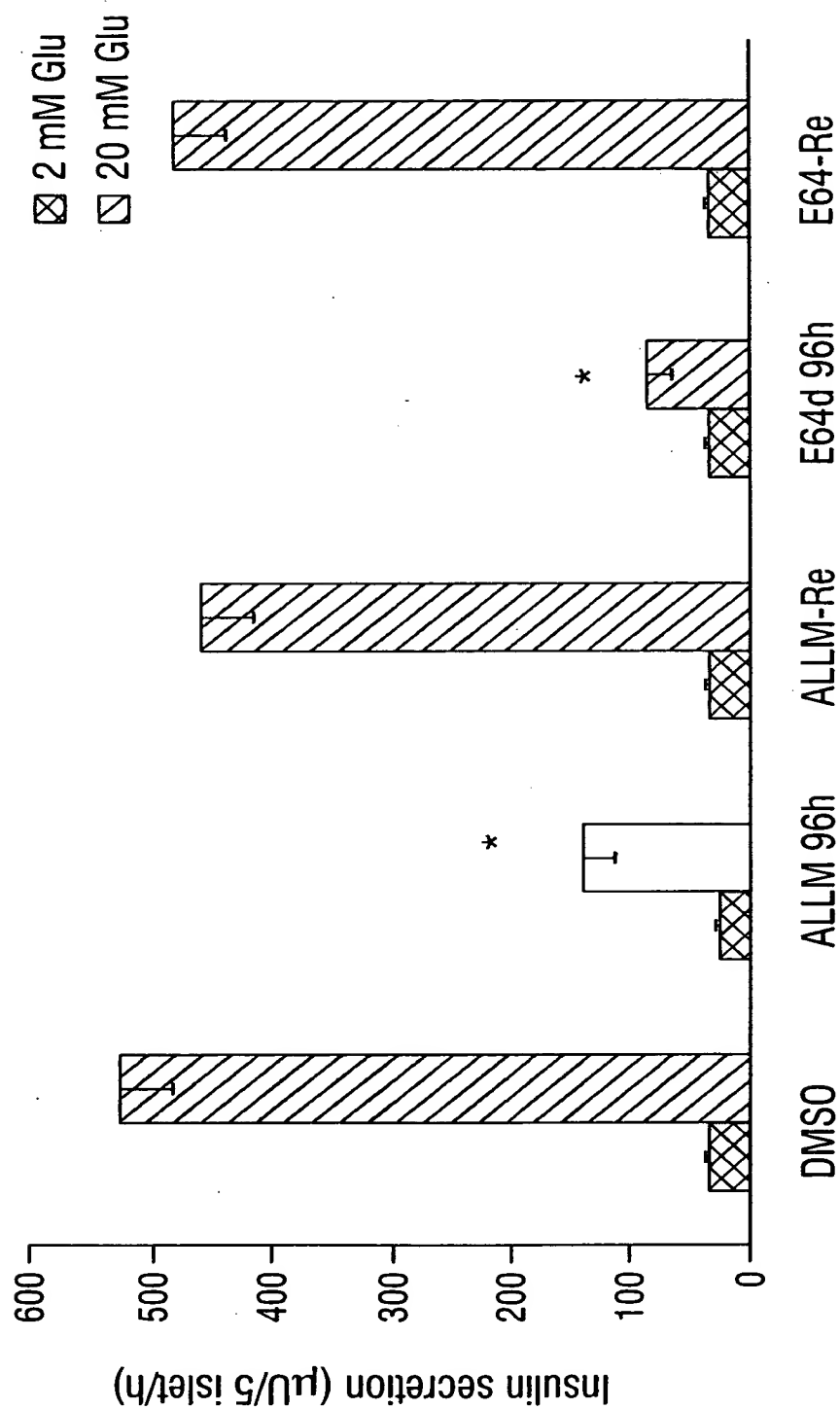


FIG. 17B

APPROVED BY CLASS S. J. CLASS
 DRAFTSMAN



Treatment
 FIG. 18

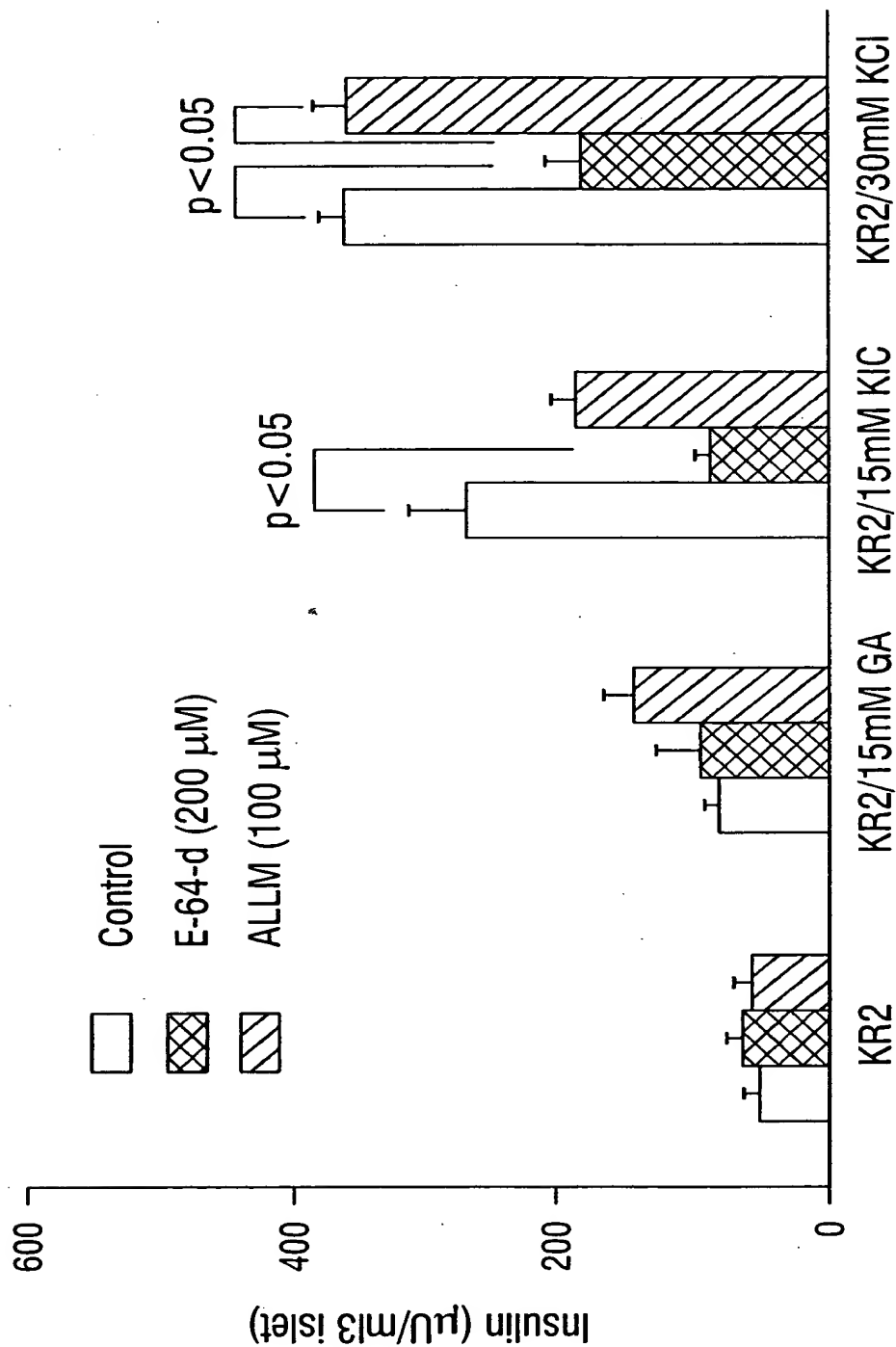
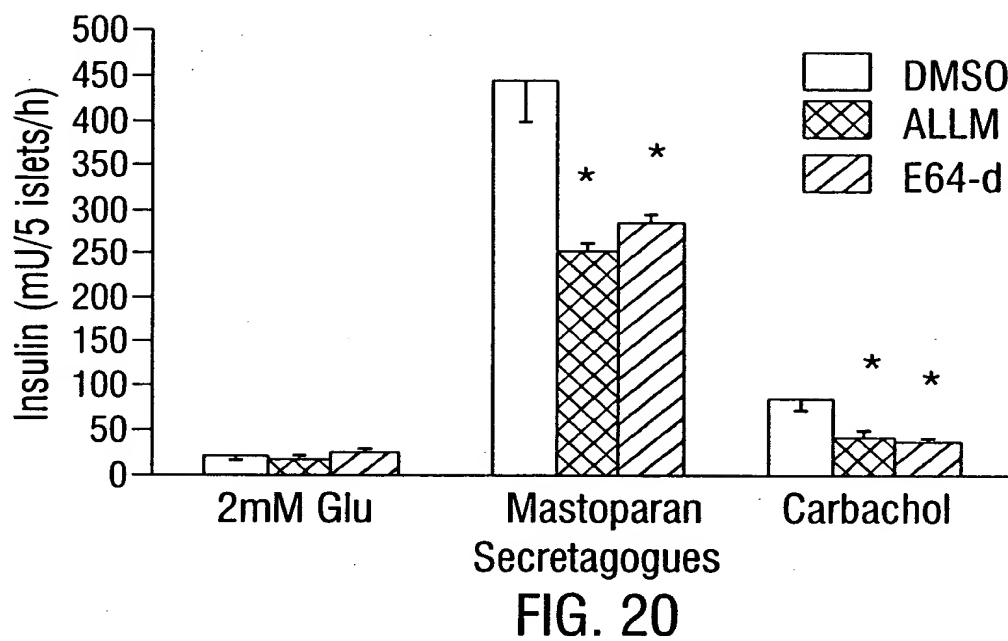


FIG. 19



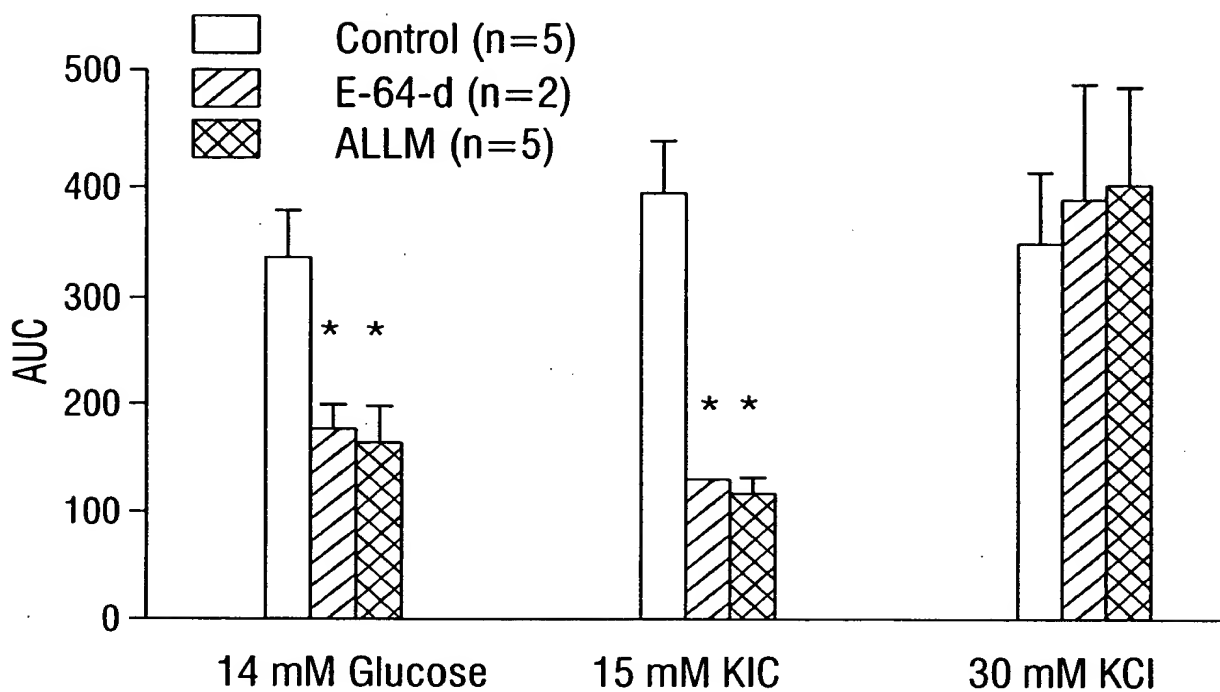


FIG. 21A

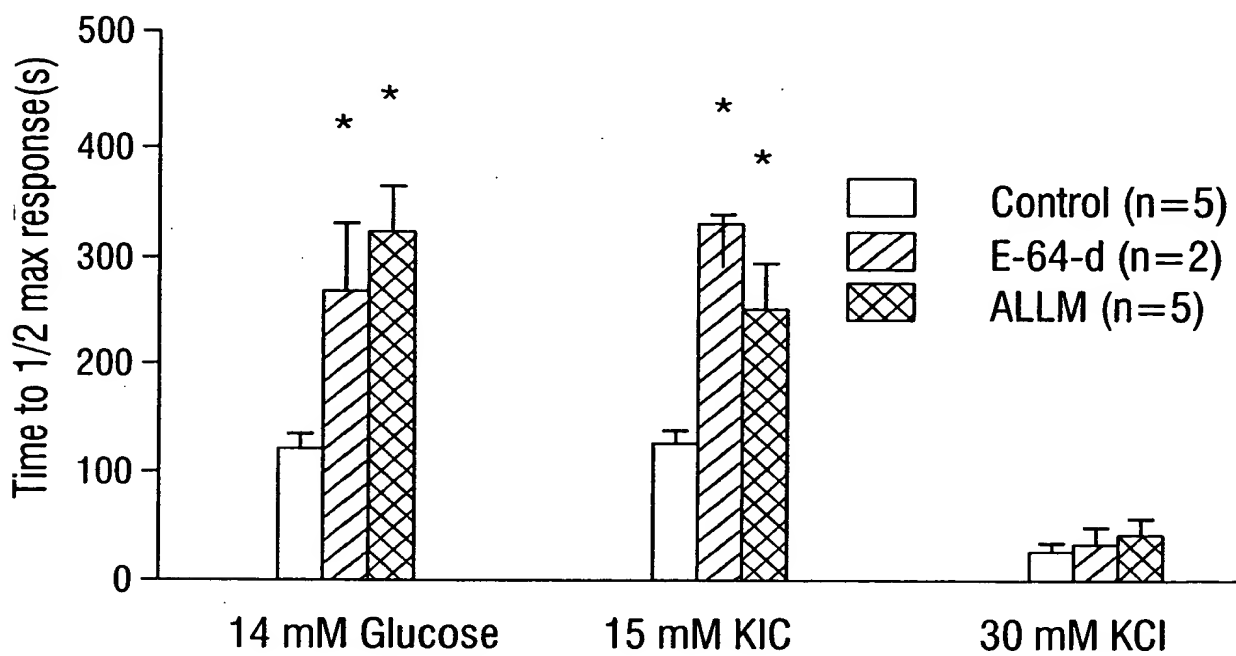


FIG. 21B

APPROVED	10.0.10.0	SUBCLASS
BY	CLASS	
DRAFTSMAN		

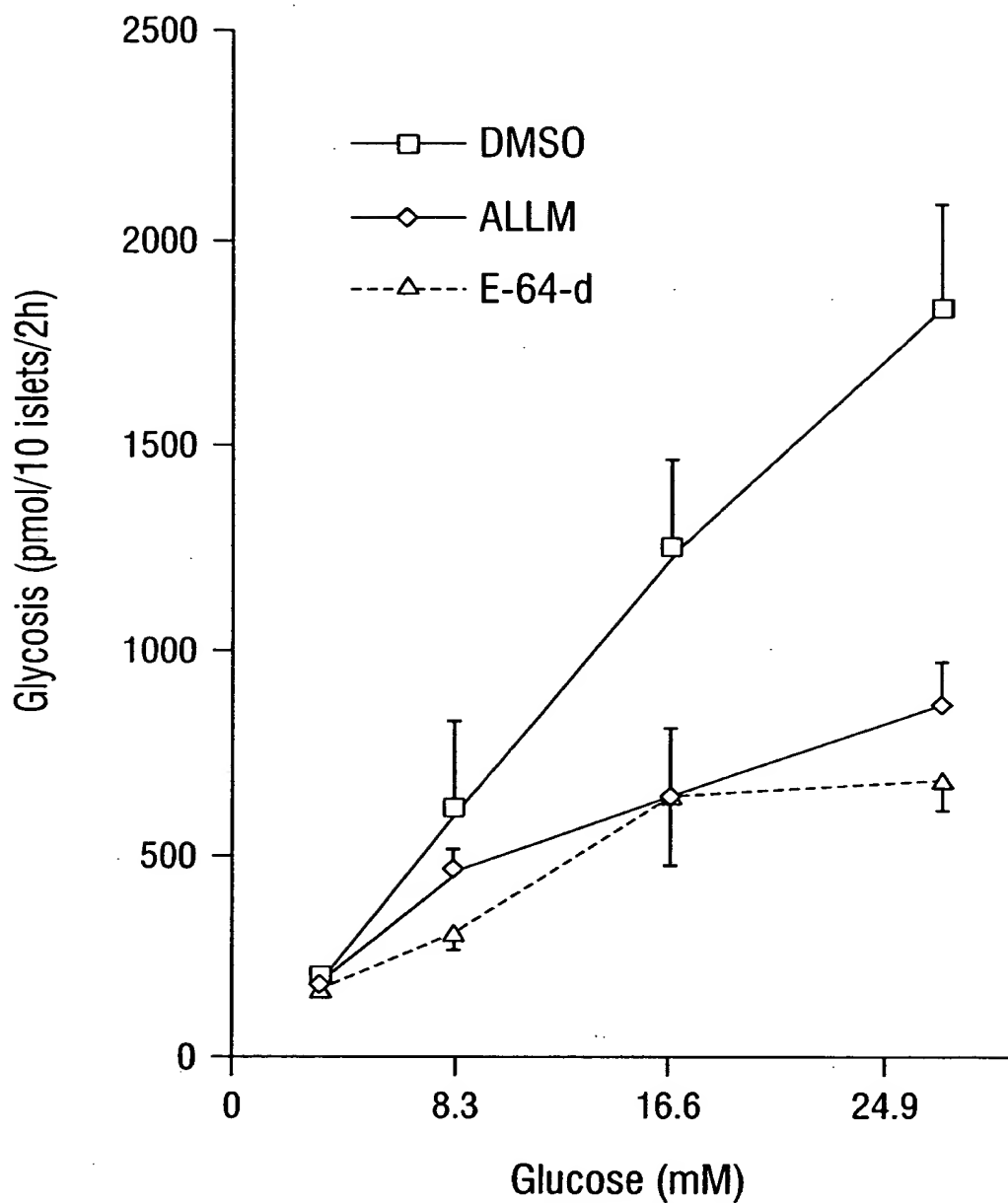


FIG. 22A

APPROVED BY DRAFTSMAN	O.G. FIG.	
	CLASS	SUBCLASS

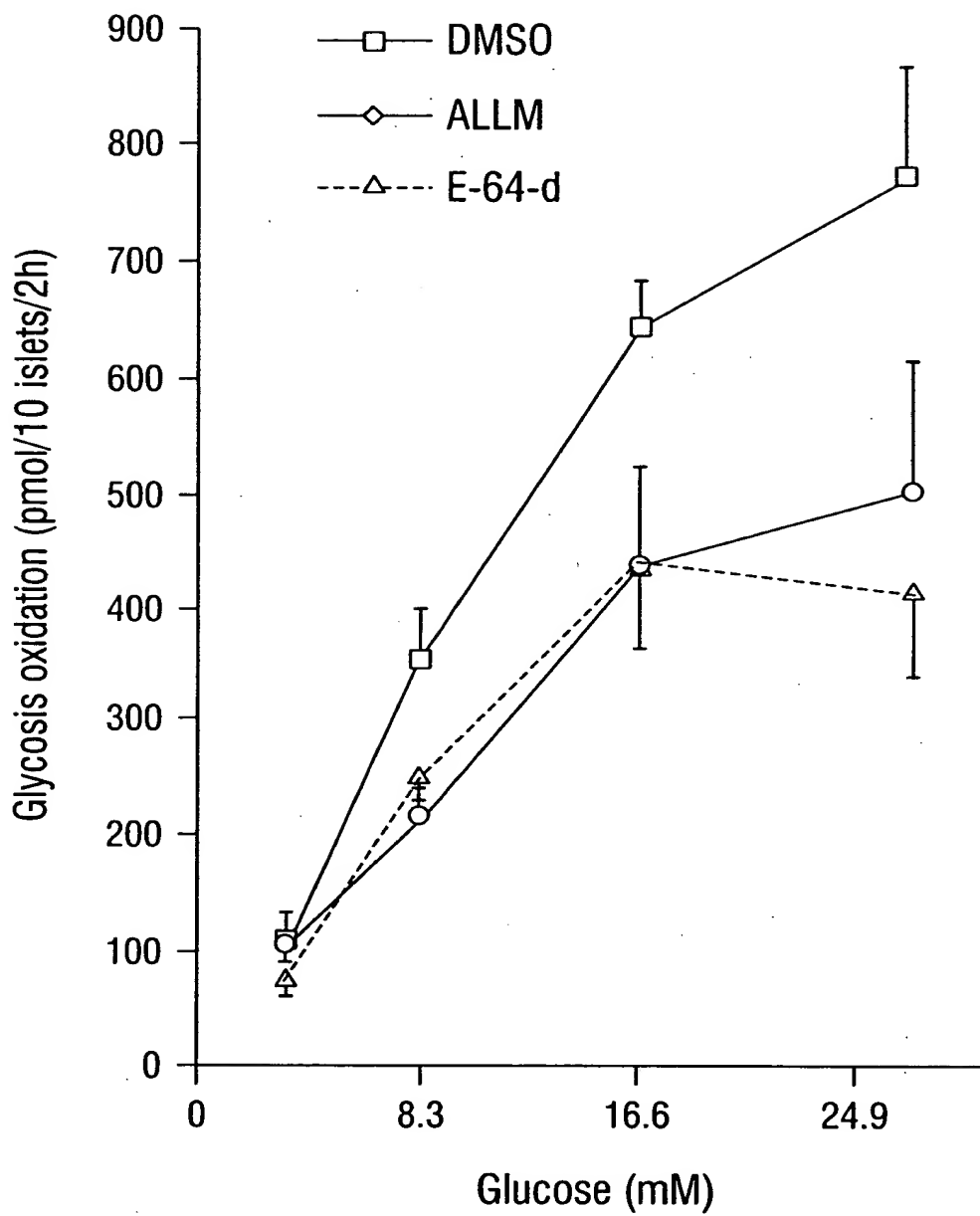


FIG. 22B

APPROVED	O.G. FIG.	CLASS	SUBCLASS
BY			
DRAFTSMAN			

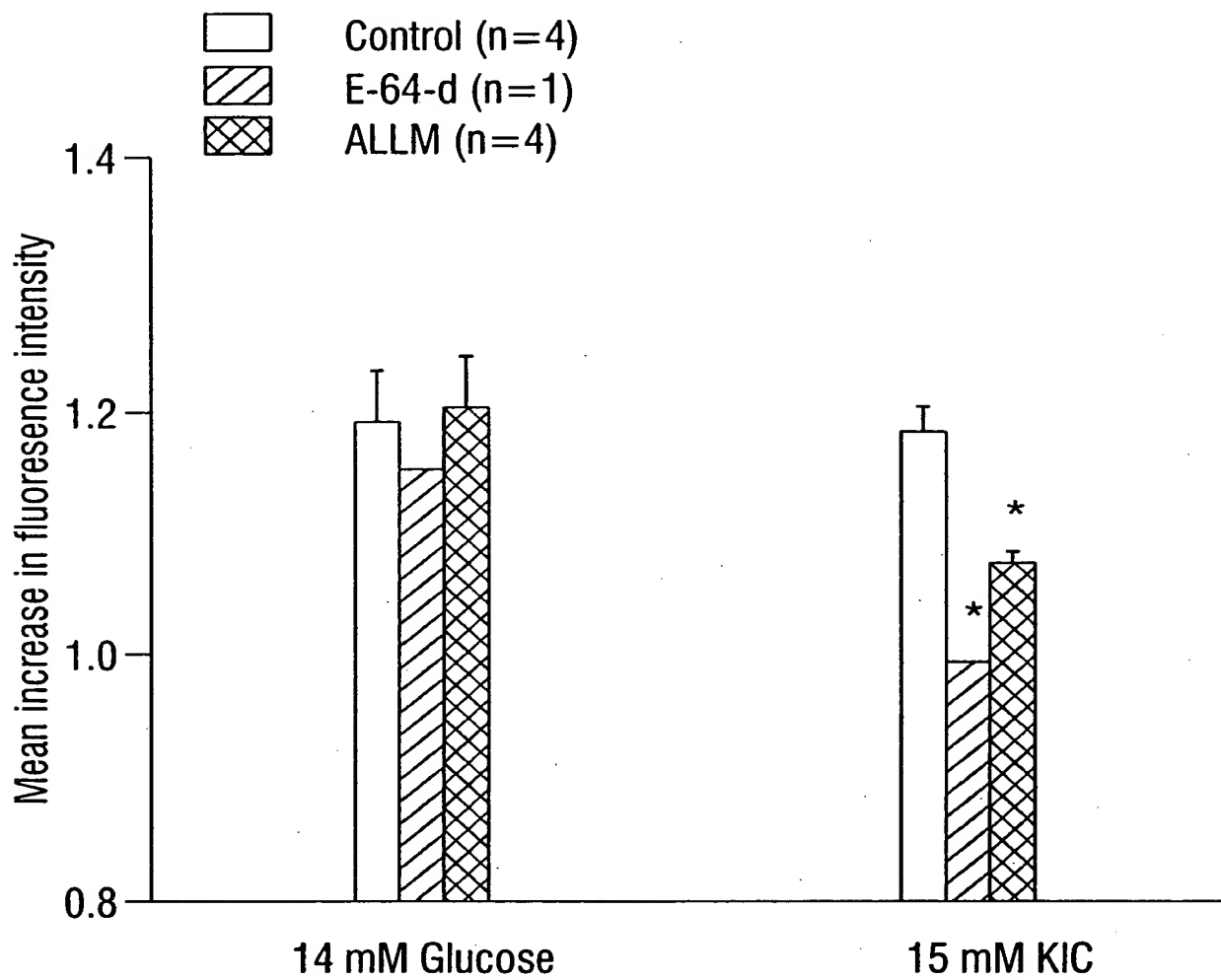
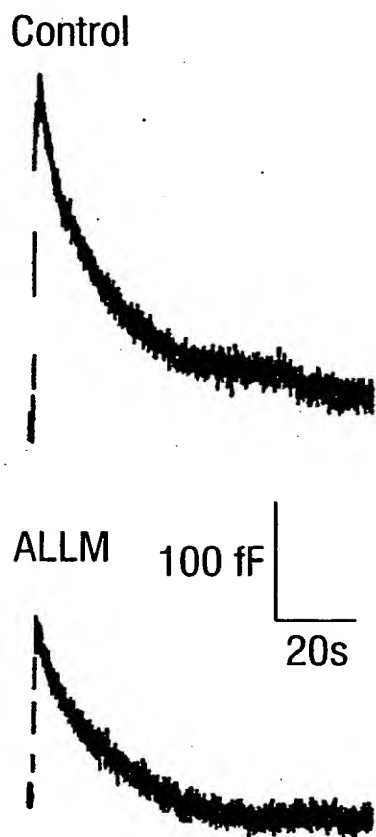


FIG. 23

NUMBERED	CLASS	SUBCLASS
BY		
ARTISMAN		



A bar graph comparing the total secretion (in femtofarads, fF) between a Control group and an ALLM group. The y-axis is labeled 'Total Secretion (fF)' and ranges from 0 to 250 in increments of 50. The x-axis has two categories: 'Control' and 'ALLM'. The Control group's bar reaches approximately 190 fF, with an error bar extending from about 185 fF to 225 fF. The ALLM group's bar reaches approximately 65 fF, with an error bar extending from about 60 fF to 75 fF. The difference between the two groups is statistically significant, as indicated by the asterisk in the caption.

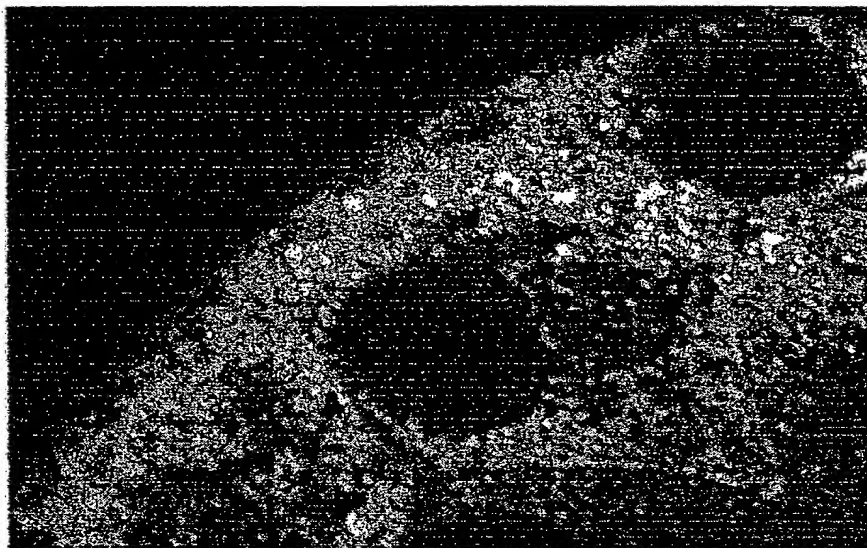
Group	Total Secretion (fF)
Control	~190
ALLM	~65

FIG. 24B

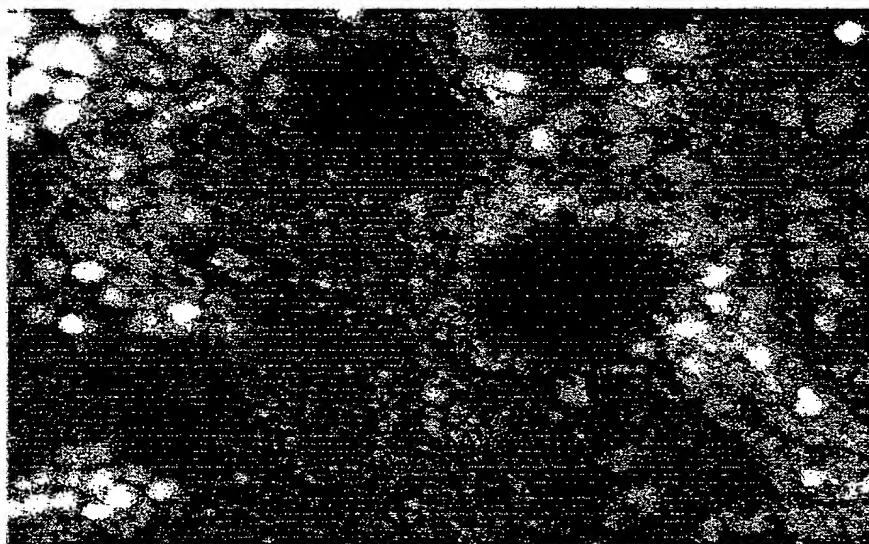


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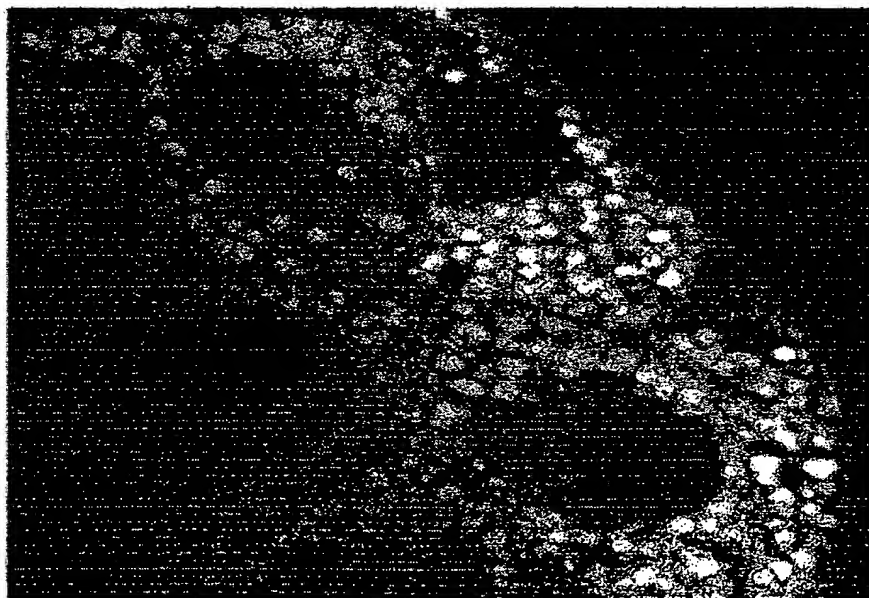
DMSO
FIG. 25A



E64d
FIG. 25A



ALLM
FIG. 25A



APPROVED	O.G. FIG.	SUBCLASS
BY	CLASS	
DRAFTSMAN		

APPROVED	00156	CLASS	SUBCLASS
BY			
DRAFTSMAN			

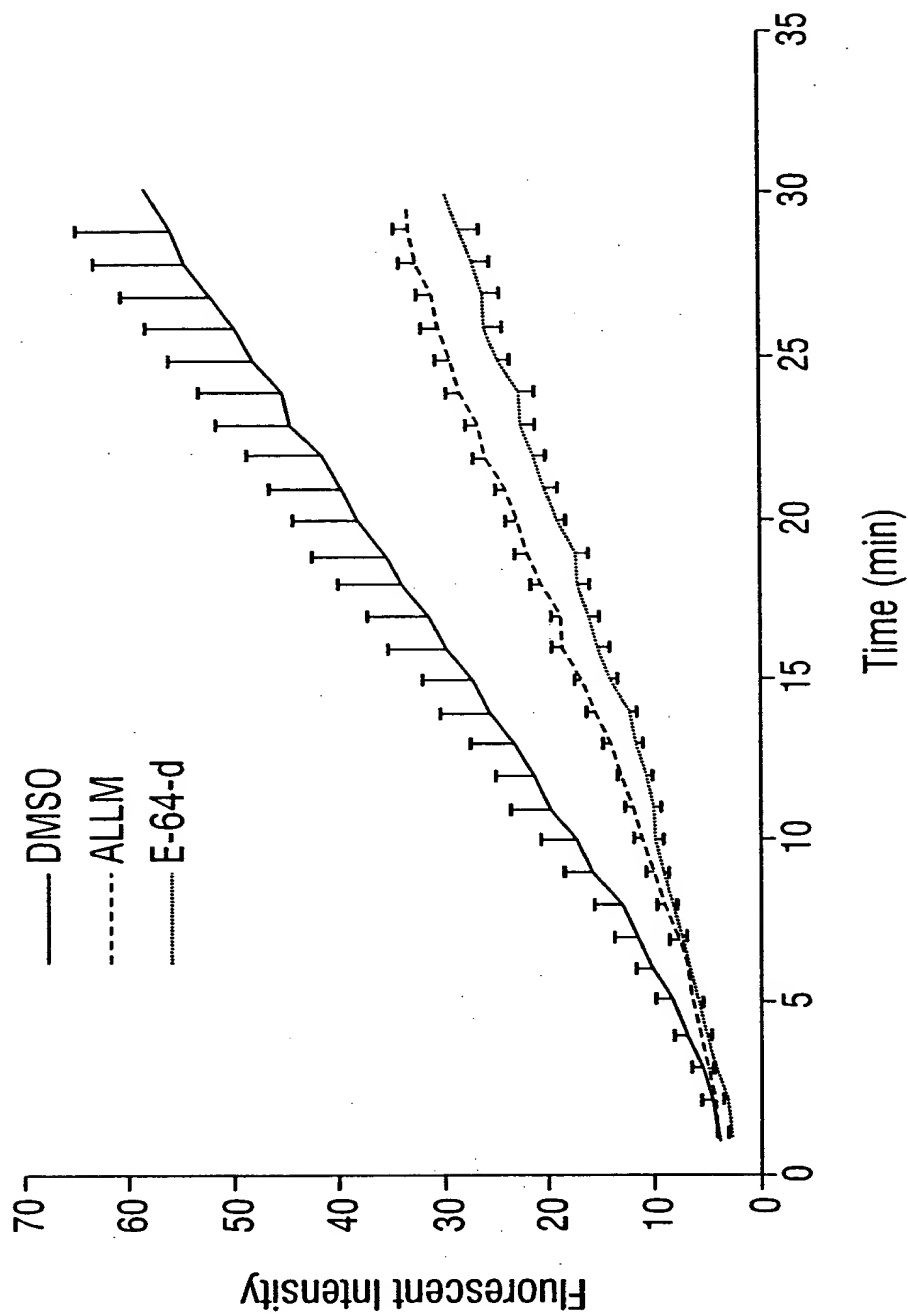


FIG. 26